



December 28, 2006

**STL Sacramento**  
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West Sacramento, CA 95605

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**STL SACRAMENTO PROJECT NUMBER: G6L050146**  
PO/CONTRACT: 129682.001/Event 112

Guy Graening  
Brown and Caldwell  
10540 White Rock Road  
Suite 180  
Rancho Cordova, CA 95670

Dear Mr. Graening,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on December 5, 2006. These samples are associated with your 21243 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

A handwritten signature in black ink, appearing to read "Karen Dahl".

Karen Dahl  
Project Manager

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    Laboratory QC Reports

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Samples: 1, 2, 3, 4

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    Method Blank Reports

    Laboratory QC Reports

AIR, PM-10

Samples: 1, 2, 3

AIR, TSP

Samples: 4

    Sample Data Sheets

## **CASE NARRATIVE**

**STL SACRAMENTO PROJECT NUMBER G6L050146**

There were no anomalies associated with this project.

## STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## G6L050146

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JKRXA	1	P-0809	11/28/2006 12:20 PM	12/5/2006 08:50 AM
JKRXC	2	P-0810	11/28/2006 12:05 PM	12/5/2006 08:50 AM
JKRXD	3	P-0811	11/28/2006 11:40 AM	12/5/2006 08:50 AM
JKRXE	4	000579	11/28/2006 11:45 AM	12/5/2006 08:50 AM

### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

## BROWN AND CALDWELL

## CHAIN OF CUSTODY RECORD

COC No. \_\_\_\_\_

3264 Goni Road / Suite 153  
 Carson City, NV 89706  
 775-883-4118 / FAX 775-883-5108

4425 W. Spring Mountain Road / Suite 225  
 Las Vegas, NV 89102  
 702-938-4080 / FAX 702-938-4082

 201 East Washington Street / Suite Y  
 Phoenix, AZ 85004

602-567-4000 / FAX 602-567-4001

Event 112

G6L050146

PROJECT NAME: Yerington Air Qly  
PROJECT NUMBER: 12243

LABORATORY NAME &amp; ADDRESS: SEVERN TRENT LABS., WEST SACRAMENTO,

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	TIME	SAMPLES INITIALED	NUMBER OF CONTAINERS	CONTAINER TYPE	SIZE AND PRESERVATIVE	MATRIX CODE	ANALYSES REQUESTED		FIELD FILTERED QC - REF	SAMPLED BY	DEPTH (FT.) BEGIN END	PDI READING (ppm)
									ANALYSIS	REQUESTED				
01	P-0809	12/05/01	12:00	MS	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.19	AS/N	0.19	---	
02	P-0810	12/05	1		1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.34	AS/N	0.34	---	
03	P-0811	11/40	1		1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.21	AS/N	0.21	---	
04	000579	11/45	1		1	8x10 Filter	NONE	A	TSP, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.19	AS/N	0.19	---	
05														---
06														---
07														---
08														---
09														---
10														---
COLLECTED & RELEASED BY:		DATE: 12/05/01 TIME: 12:00		COOLER I.D.:		DATE: 12/05/01 TIME: 12:00		RELINQUISHED BY:		DATE: 12/05/01 TIME: 12:00		TIME: 12:00		COMMENTS (see note on back):
RECEIVED BY:		DATE: 12/05/01 TIME: 12:00		DATE: 12/05/01 TIME: 12:00		DATE: 12/05/01 TIME: 12:00		DATE: 12/05/01 TIME: 12:00		DATE: 12/05/01 TIME: 12:00		DATE: 12/05/01 TIME: 12:00		Enfas Project No. 001KF-0043 Phase 30 - Prelim. Assessment 03 - Malatia: Subunit 1 Post cleanup: 05 Subunit 1 Attach copy's
RECORD RETURNED BY:		DATE: / / TIME: :		DATE: / / TIME: :		DATE: / / TIME: :		DATE: / / TIME: :		DATE: / / TIME: :		DATE: / / TIME: :		
COURIER: FED EX		SHIPPING NUMBER: 799547577777												

DISTRIBUTION: WHITE - PROJECT FILE • CANARY - LAB RECEIPT • PINK - DATA MANAGEMENT • GOLDENROD - FIELD  
 USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK

CLIENT Brown & Caldwell PM PD LOG # 42524LOT# (QUANTIMS ID) G6L050146 QUOTE# 62684 LOCATION ACDATE RECEIVED 12/15/06 TIME RECEIVED 0850 Initials JW Date 12/15/06

DELIVERED BY	<input checked="" type="checkbox"/> FEDEX	<input type="checkbox"/> CA OVERNIGHT	<input type="checkbox"/> CLIENT
	<input type="checkbox"/> AIRBORNE	<input type="checkbox"/> GOLDENSTATE	<input type="checkbox"/> DHL
	<input type="checkbox"/> UPS	<input type="checkbox"/> BAX GLOBAL	<input type="checkbox"/> GO-GETTERS
	<input type="checkbox"/> STL COURIER	<input type="checkbox"/> COURIERS ON DEMAND	
	<input type="checkbox"/> OTHER		

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S)

SHIPPING CONTAINER(S)  STL  CLIENT  N/ATEMPERATURE RECORD (IN °C) IR 1  3  OTHER N/A

COC #(S)

TEMPERATURE BLANK Observed: \_\_\_\_\_ Corrected: N/A

SAMPLE TEMPERATURE

Observed: Ambient Average: \_\_\_\_\_ Corrected Average: \_\_\_\_\_COLLECTOR'S NAME:  Verified from COC  Not on COCpH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/AVOA-ENCORES  N/A METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A Clouseau  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*  N/A WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

Lot

ID:

G6L050146

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
"CT																				
Encore																				
Folder/filter	/	/	/	/																
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

1 = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide

n = nitric acid

zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 3/05 EM

Page 2

# AIR, 6020, Metals

Brown and Caldwell

Client Sample ID: P-0809

**TOTAL Metals**

Lot-Sample #....: G6L050146-001

Matrix.....: AIR

Date Sampled...: 11/28/06

Date Received..: 12/05/06

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
<b>Prep Batch #....: 6347212</b>							
Aluminum	193 B	240	ug	SW846 6020	MDL.....: 120	12/13-12/21/06	JKRXA1AC
		Dilution Factor: 1					
Arsenic	ND	2.9	ug	SW846 6020	MDL.....: 0.89	12/13-12/21/06	JKRXA1AD
		Dilution Factor: 1					
Cadmium	0.12 B	1.2	ug	SW846 6020	MDL.....: 0.028	12/13-12/21/06	JKRXA1AE
		Dilution Factor: 1					
Cobalt	ND	2.4	ug	SW846 6020	MDL.....: 2.3	12/13-12/22/06	JKRXA1AF
		Dilution Factor: 1					
Chromium	ND	2.9	ug	SW846 6020	MDL.....: 2.3	12/13-12/22/06	JKRXA1AG
		Dilution Factor: 1					
Copper	13.3	6.0	ug	SW846 6020	MDL.....: 1.3	12/13-12/21/06	JKRXA1AH
		Dilution Factor: 1					
Manganese	6.9	6.0	ug	SW846 6020	MDL.....: 2.0	12/13-12/21/06	JKRXA1AJ
		Dilution Factor: 1					
Nickel	ND	6.0	ug	SW846 6020	MDL.....: 1.2	12/13-12/21/06	JKRXA1AK
		Dilution Factor: 1					

**NOTE(S):**

B Estimated result. Result is less than RL.

## Brown and Caldwell

Client Sample ID: P-0810

## TOTAL Metals

Lot-Sample #....: G6L050146-002  
 Date Sampled...: 11/28/06

Date Received..: 12/05/06

Matrix.....: AIR

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
<b>Prep Batch #....: 6347212</b>							
Aluminum	213 B	240	ug	SW846 6020		12/13-12/21/06	JKRXC1AC
		Dilution Factor: 1		MDL.....	: 120		
Arsenic	ND	2.9	ug	SW846 6020		12/13-12/21/06	JKRXC1AD
		Dilution Factor: 1		MDL.....	: 0.89		
Cadmium	0.12 B	1.2	ug	SW846 6020		12/13-12/21/06	JKRXC1AE
		Dilution Factor: 1		MDL.....	: 0.028		
Cobalt	ND	2.4	ug	SW846 6020		12/13-12/22/06	JKRXC1AF
		Dilution Factor: 1		MDL.....	: 2.3		
Chromium	ND	2.9	ug	SW846 6020		12/13-12/22/06	JKRXC1AG
		Dilution Factor: 1		MDL.....	: 2.3		
Copper	12.0	6.0	ug	SW846 6020		12/13-12/21/06	JKRXC1AH
		Dilution Factor: 1		MDL.....	: 1.3		
Manganese	7.4	6.0	ug	SW846 6020		12/13-12/21/06	JKRXC1AJ
		Dilution Factor: 1		MDL.....	: 2.0		
Nickel	ND	6.0	ug	SW846 6020		12/13-12/21/06	JKRXC1AK
		Dilution Factor: 1		MDL.....	: 1.2		

NOTE(S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0811

**TOTAL Metals**

Lot-Sample #...: G6L050146-003

Matrix.....: AIR

Date Sampled...: 11/28/06

Date Received..: 12/05/06

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
<b>Prep Batch #...: 6347212</b>									
Aluminum	421	240	ug		SW846 6020			12/13-12/21/06	JKRXD1AC
		Dilution Factor: 1				MDL.....: 120			
Arsenic	ND	2.9	ug		SW846 6020			12/13-12/21/06	JKRXD1AD
		Dilution Factor: 1				MDL.....: 0.89			
Cadmium	0.12 B	1.2	ug		SW846 6020			12/13-12/21/06	JKRXD1AE
		Dilution Factor: 1				MDL.....: 0.028			
Cobalt	ND	2.4	ug		SW846 6020			12/13-12/22/06	JKRXD1AF
		Dilution Factor: 1				MDL.....: 2.3			
Chromium	ND	2.9	ug		SW846 6020			12/13-12/22/06	JKRXD1AG
		Dilution Factor: 1				MDL.....: 2.3			
Copper	19.5	6.0	ug		SW846 6020			12/13-12/21/06	JKRXD1AH
		Dilution Factor: 1				MDL.....: 1.3			
Manganese	15.6	6.0	ug		SW846 6020			12/13-12/21/06	JKRXD1AJ
		Dilution Factor: 1				MDL.....: 2.0			
Nickel	ND	6.0	ug		SW846 6020			12/13-12/21/06	JKRXD1AK
		Dilution Factor: 1				MDL.....: 1.2			

**NOTE(S) :**

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000579

**TOTAL Metals**

Lot-Sample #...: G6L050146-004

Matrix.....: AIR

Date Sampled...: 11/28/06

Date Received..: 12/05/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #...: 6347212</b>						
Aluminum	725	240	ug	SW846 6020	12/13-12/21/06	JKRXE1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	12/13-12/21/06	JKRXE1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.15 B	1.2	ug	SW846 6020	12/13-12/21/06	JKRXE1AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	12/13-12/22/06	JKRXE1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	2.3 B	2.9	ug	SW846 6020	12/13-12/22/06	JKRXE1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	70.5	6.0	ug	SW846 6020	12/13-12/21/06	JKRXE1AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	24.5	6.0	ug	SW846 6020	12/13-12/21/06	JKRXE1AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	1.3 B	6.0	ug	SW846 6020	12/13-12/21/06	JKRXE1AK
		Dilution Factor: 1		MDL.....: 1.2		

**NOTE(S) :**

B Estimated result. Result is less than RL.

# QC DATA ASSOCIATION SUMMARY

G6L050146

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE #</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 6020		6347212	
002	AIR	SW846 6020		6347212	
003	AIR	SW846 6020		6347212	
004	AIR	SW846 6020		6347212	

**METHOD BLANK REPORT****TOTAL Metals****Client Lot #....: G6L050146****Matrix.....: AIR**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MB Lot-Sample #: G6L130000-212 Prep Batch #....: 6347212</b>						
Aluminum	ND	240	ug	SW846 6020	12/13-12/21/06	JLC051AA
		Dilution Factor: 1				
Arsenic	ND	2.9	ug	SW846 6020	12/13-12/21/06	JLC051AC
		Dilution Factor: 1				
Cadmium	ND	1.2	ug	SW846 6020	12/13-12/21/06	JLC051AD
		Dilution Factor: 1				
Chromium	ND	2.9	ug	SW846 6020	12/13-12/22/06	JLC051AF
		Dilution Factor: 1				
Cobalt	ND	2.4	ug	SW846 6020	12/13-12/22/06	JLC051AE
		Dilution Factor: 1				
Copper	ND	6.0	ug	SW846 6020	12/13-12/21/06	JLC051AG
		Dilution Factor: 1				
Manganese	ND	6.0	ug	SW846 6020	12/13-12/21/06	JLC051AH
		Dilution Factor: 1				
Nickel	ND	6.0	ug	SW846 6020	12/13-12/21/06	JLC051AJ
		Dilution Factor: 1				

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

**Lot-Sample #...: G6L050146**

**Matrix.....: AIR**

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>		<u>PERCNT</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECVRY</u>	<u>RPD</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Aluminum	1200	1140	ug	95		SW846 6020	12/13-12/21/06	6347212
	1200	1180	ug	99	3.5	SW846 6020		
Dilution Factor: 1								
Arsenic	240	216	ug	90		SW846 6020	12/13-12/21/06	6347212
	240	223	ug	93	3.3	SW846 6020		
Dilution Factor: 1								
Cadmium	240	220	ug	92		SW846 6020	12/13-12/21/06	6347212
	240	227	ug	95	3.4	SW846 6020		
Dilution Factor: 1								
Chromium	240	209	ug	87		SW846 6020	12/13-12/22/06	6347212
	240	221	ug	92	5.7	SW846 6020		
Dilution Factor: 1								
Cobalt	240	212	ug	88		SW846 6020	12/13-12/22/06	6347212
	240	225	ug	94	6.3	SW846 6020		
Dilution Factor: 1								
Copper	240	219	ug	91		SW846 6020	12/13-12/21/06	6347212
	240	226	ug	94	3.5	SW846 6020		
Dilution Factor: 1								
Manganese	240	210	ug	87		SW846 6020	12/13-12/21/06	6347212
	240	229	ug	95	8.6	SW846 6020		
Dilution Factor: 1								
Nickel	240	224	ug	93		SW846 6020	12/13-12/21/06	6347212
	240	236	ug	98	5.2	SW846 6020		
Dilution Factor: 1								

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Lot-Sample #...: G6L050146**

**Matrix.....: AIR**

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	PREP-
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	BATCH #
Aluminum	95	(75 - 125)		SW846 6020	12/13-12/21/06	6347212
	99	(75 - 125) 3.5 (0-20)		SW846 6020	12/13-12/21/06	6347212
Dilution Factor: 1						
Arsenic	90	(75 - 125)		SW846 6020	12/13-12/21/06	6347212
	93	(75 - 125) 3.3 (0-20)		SW846 6020	12/13-12/21/06	6347212
Dilution Factor: 1						
Cadmium	92	(75 - 125)		SW846 6020	12/13-12/21/06	6347212
	95	(75 - 125) 3.4 (0-20)		SW846 6020	12/13-12/21/06	6347212
Dilution Factor: 1						
Chromium	87	(75 - 125)		SW846 6020	12/13-12/22/06	6347212
	92	(75 - 125) 5.7 (0-20)		SW846 6020	12/13-12/22/06	6347212
Dilution Factor: 1						
Cobalt	88	(75 - 125)		SW846 6020	12/13-12/22/06	6347212
	94	(75 - 125) 6.3 (0-20)		SW846 6020	12/13-12/22/06	6347212
Dilution Factor: 1						
Copper	91	(75 - 125)		SW846 6020	12/13-12/21/06	6347212
	94	(75 - 125) 3.5 (0-20)		SW846 6020	12/13-12/21/06	6347212
Dilution Factor: 1						
Manganese	87	(75 - 125)		SW846 6020	12/13-12/21/06	6347212
	95	(75 - 125) 8.6 (0-20)		SW846 6020	12/13-12/21/06	6347212
Dilution Factor: 1						
Nickel	93	(75 - 125)		SW846 6020	12/13-12/21/06	6347212
	98	(75 - 125) 5.2 (0-20)		SW846 6020	12/13-12/21/06	6347212
Dilution Factor: 1						

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# AIR, 9056, Sulfate

Brown and Caldwell

Client Sample ID: P-0809

General Chemistry

Lot-Sample #....: G6L050146-001    Work Order #....: JKRXA    Matrix.....: AIR  
Date Sampled....: 11/28/06    Date Received...: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	0.41 B,J	0.48	mg	SW846 9056	12/13/06	6347658
		Dilution Factor: 12			MDL.....: 0.048	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0810

General Chemistry

Lot-Sample #....: G6L050146-002      Work Order #....: JKRXC      Matrix.....: AIR  
Date Sampled....: 11/28/06      Date Received...: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	0.54 J	0.48	mg	SW846 9056	12/13/06	6347658
				Dilution Factor: 12	MDL.....: 0.048	

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0811

General Chemistry

Lot-Sample #....: G6L050146-003      Work Order #....: JKRXD      Matrix.....: AIR  
Date Sampled....: 11/28/06      Date Received...: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	0.60 J	0.48	mg	SW846 9056	12/13/06	6347658
		Dilution Factor: 12		MDL.....: 0.048		

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000579

General Chemistry

Lot-Sample #....: G6L050146-004      Work Order #....: JKRXE      Matrix.....: AIR  
Date Sampled....: 11/28/06      Date Received...: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	1.7 J	0.48	mg	SW846 9056	12/13/06	6347658
		Dilution Factor: 12		MDL.....:	0.048	

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# QC DATA ASSOCIATION SUMMARY

G6L050146

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE #</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 9056		6347658	
	AIR	CFR50J APDX J		6346286	
002	AIR	SW846 9056		6347658	
	AIR	CFR50J APDX J		6346286	
003	AIR	SW846 9056		6347658	
	AIR	CFR50J APDX J		6346286	
004	AIR	CFR50B APDX B		6346285	
	AIR	SW846 9056		6347658	

METHOD BLANK REPORT

General Chemistry

Client Lot #....: G6L050146

Matrix.....: AIR

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
		LIMIT	UNITS				
Sulfate	0.073 B	Work Order #: JLFDJ1AA	MB	Lot-Sample #: G6L130000-658	SW846 9056	12/13/06	6347658
		Dilution Factor:	12				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: G6L050146

Matrix.....: AIR

PARAMETER	SPIKE	MEASURED		PERCNT			METHOD	PREPARATION-	PREP	ANALYSIS DATE	BATCH #
	AMOUNT	AMOUNT	UNITS	RECVRY	RPD	LCS		LCS	Lot-Sample#:		
Sulfate	4.80	4.76	mg	99		SW846	9056		12/13/06	6347658	
	4.80	4.72	mg	98	0.86	SW846	9056		12/13/06	6347658	
	Dilution Factor: 1										

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**General Chemistry**

**Lot-Sample #....: G6L050146**

**Matrix.....: AIR**

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
						<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Sulfate		WO#:JLFDJ1AC-LCS/JLFDJ1AD-LCSD	LCS	Lot-Sample#:	G6L130000-658		
	99	(85 - 115)			SW846 9056	12/13/06	6347658
	98	(85 - 115) 0.86 (0-15)			SW846 9056	12/13/06	6347658
		Dilution Factor: 1					

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# AIR, PM-10 & TSP

Brown and Caldwell

Client Sample ID: P-0809

General Chemistry

Lot-Sample #....: G6L050146-001    Work Order #....: JKRXA    Matrix.....: AIR  
Date Sampled....: 11/28/06    Date Received...: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0047	0.0001	g	CFR50J APDX J	12/07-12/08/06	6346286

Brown and Caldwell

Client Sample ID: P-0810

General Chemistry

Lot-Sample #....: G6L050146-002      Work Order #....: JKRXC      Matrix.....: AIR  
Date Sampled....: 11/28/06      Date Received...: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0033	0.0001	g	CFR50J APDX J	12/07-12/11/06	6346286

Brown and Caldwell

Client Sample ID: P-0811

General Chemistry

Lot-Sample #....: G6L050146-003      Work Order #....: JKRXD      Matrix.....: AIR  
Date Sampled....: 11/28/06      Date Received...: 12/05/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Particulate Matter as PM10	0.0133	0.0001	g	CFR50J APDX J	12/07-12/11/06	6346286

Brown and Caldwell

Client Sample ID: 000579

General Chemistry

Lot-Sample #....: G6L050146-004      Work Order #....: JKRXE      Matrix.....: AIR  
Date Sampled...: 11/28/06      Date Received..: 12/05/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Total Suspended Particulates	0.0368	0.0001	g	CFR50B APDX B	12/07-12/11/06	6346285		

# AIR, 6020, Metals

## **Raw Data Package**

## **ICPMS**

SEVERN  
TRENT

STL

STL Sacramento  
ICP-MS Data Review Checklist  
Level I and Level II

Instrument ID (Circle one): <b>M01</b> <b>M02</b>		Method 6020 SOP SAC-MT-0001		
File Number <b>061221B1</b>	Batch Numbers <b>6347212, 6355072</b>	Date <b>12/21/06</b>	Analyst <b>BRJ</b>	
Lot Numbers <b>G6L050146, G6L200175</b>			YES	NO
1. Copy of analysis protocol used included?			✓	
2. ICVs & CCVs within 10% of true value or recal and rerun?			✓	
3. ICB & CCBs < reporting limit or recal and rerun?			✓	
4. 10 samples or less analyzed between calibration checks?			✓	
5. All parameters within linear range?			✓	
6. LCS/LCSD within limits?			✓	
7. Prep blank value < reporting limit or all samples >20x blank?			✓	
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?			✓	
9. Appropriate dilution factors applied to data?			✓	
10. Matrix spike and spike dup within customer defined limits?				✓
11. Each batch checked for presence of internal standard in samples?			✓	
12. Anomalies entered using Clouseau?				✓

COMMENTS:

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REVIEWED BY: **BRJ**  
DATE: **12/22/06**

DATA ENTERED BY: **BRJ**  
DATE: **12/22/06**

# Dataset Report

Perkin Elmer ICPMS M01

User Name: JonesB

Computer Name: SACP317A

Dataset File Path: c:\elandata\dataset\061221b1\

Report Date/Time: Friday, December 22, 2006 11:41:19

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
6355072	JLVJ9 n.i.	16:35:50 Thu 21-Dec-06	Sample	G6L200175-1 N.I.
	Rinse 3X	16:46:10 Thu 21-Dec-06	Sample	
	Blank	16:50:22 Thu 21-Dec-06	Blank	
	Standard 1	16:54:27 Thu 21-Dec-06	Standard #1	
	ICV	16:58:17 Thu 21-Dec-06	Sample	
	ICB	17:02:12 Thu 21-Dec-06	Sample	
	LLSTD1	17:06:39 Thu 21-Dec-06	Sample	LL STD @10X
	LLSTD2	17:10:31 Thu 21-Dec-06	Sample	LL STD @5X
	ICSA	17:33:05 Thu 21-Dec-06	Sample	
	ICSAB	17:36:57 Thu 21-Dec-06	Sample	
	Rinse	17:57:14 Thu 21-Dec-06	Sample	
Re-run	CCV 1	18:01:10 Thu 21-Dec-06	Sample	A1 out
	CCB 1	18:05:05 Thu 21-Dec-06	Sample	
	CCV 2	18:09:00 Thu 21-Dec-06	Sample	Cr, Co out
	CCB 2	18:12:56 Thu 21-Dec-06	Sample	
	JLC05C	18:16:49 Thu 21-Dec-06	Sample	G6L130000-212 LCS
	JLC05L	18:20:39 Thu 21-Dec-06	Sample	G6L130000-212 LCSD
	Rinse	18:24:32 Thu 21-Dec-06	Sample	
6347212	JLC05B	18:28:29 Thu 21-Dec-06	Sample	G6L130000-212 BLK
6347212	JKRXA	18:32:22 Thu 21-Dec-06	Sample	G6L050146-1
6347212	JKRXAP5	18:36:13 Thu 21-Dec-06	Sample	G6L050146-1 5X
6347212	JKRXAZ	18:40:05 Thu 21-Dec-06	Sample	G6L050146-1 PS
6347212	JKRXC	18:43:57 Thu 21-Dec-06	Sample	G6L050146-2
6347212	JKRXD	18:47:49 Thu 21-Dec-06	Sample	G6L050146-3
6347212	JKRXE	18:51:42 Thu 21-Dec-06	Sample	G6L050146-4
	CCV 3	18:55:36 Thu 21-Dec-06	Sample	
	CCB 3	18:59:31 Thu 21-Dec-06	Sample	
6347212	FB	19:03:27 Thu 21-Dec-06	Sample	G6L130000-212 BLK CHK
	LLSTD1	19:07:21 Thu 21-Dec-06	Sample	LL STD @10X out A1
	LLSTD2	19:11:13 Thu 21-Dec-06	Sample	LL STD @5X
	ICSA	19:15:06 Thu 21-Dec-06	Sample	
	ICSAB	19:18:59 Thu 21-Dec-06	Sample	
	Rinse	19:22:53 Thu 21-Dec-06	Sample	
	CCV 4	19:26:49 Thu 21-Dec-06	Sample	A1 out
	CCB 4	19:30:44 Thu 21-Dec-06	Sample	
	CCV 5	19:34:39 Thu 21-Dec-06	Sample	out A1
	CCB 5	19:38:35 Thu 21-Dec-06	Sample	
6355072	JLXE4C	19:42:28 Thu 21-Dec-06	Sample	G6L210000-72 LCS
6355072	JLXE4L	19:46:19 Thu 21-Dec-06	Sample	G6L210000-72 LCSD
	Rinse	19:50:14 Thu 21-Dec-06	Sample	
6355072	JLXE4B	19:54:10 Thu 21-Dec-06	Sample	G6L210000-72 BLK
6355072	JLVJ9	19:58:04 Thu 21-Dec-06	Sample	G6L200175-1
6355072	JLVJ9P5	20:01:54 Thu 21-Dec-06	Sample	G6L200175-1 5X
6355072	JLVJ9X	20:05:45 Thu 21-Dec-06	Sample	G6L200175-1 DU
6355072	JLVJ9Z	20:09:36 Thu 21-Dec-06	Sample	G6L200175-1 PS
6355072	JLVKA	20:13:28 Thu 21-Dec-06	Sample	G6L200175-2
6355072	JLVKC	20:17:20 Thu 21-Dec-06	Sample	G6L200175-3
	CCV 6	20:21:13 Thu 21-Dec-06	Sample	
	CCB 6	20:25:08 Thu 21-Dec-06	Sample	
	CCV 7	20:29:04 Thu 21-Dec-06	Sample	

	CCB 7	20:32:59 Thu 21-Dec-06	Sample	
6355072	JLVKD	20:36:53 Thu 21-Dec-06	Sample	G6L200175-4
6355072	JLVKE	20:40:46 Thu 21-Dec-06	Sample	G6L200175-5
6355072	JLVKG	20:44:39 Thu 21-Dec-06	Sample	G6L200175-6
6355072	JLVKH	20:48:33 Thu 21-Dec-06	Sample	G6L200175-7
6355072	JLVKJ	20:52:27 Thu 21-Dec-06	Sample	G6L200175-8
6355072	JLVKK	20:56:21 Thu 21-Dec-06	Sample	G6L200175-9
6355072	JLVKN	21:00:16 Thu 21-Dec-06	Sample	G6L200175-10
6355072	JLVKP	21:04:11 Thu 21-Dec-06	Sample	G6L200175-11
6355072	JLVKR	21:08:06 Thu 21-Dec-06	Sample	G6L200175-12
6355072	JLVKT	21:12:02 Thu 21-Dec-06	Sample	G6L200175-13
	CCV 8	21:15:58 Thu 21-Dec-06	Sample	
	CCB 8	21:19:53 Thu 21-Dec-06	Sample	

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/22/06 14:13:33

File ID: 061221B1

Analyst: jonesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Blank			1.0	12/21/06 16:50		<input type="checkbox"/>
2	Standard1			1.0	12/21/06 16:54		<input type="checkbox"/>
3	ICV			1.0	12/21/06 16:58		<input type="checkbox"/>
4	ICB			1.0	12/21/06 17:02		<input type="checkbox"/>
5	LLSTD1			1.0	12/21/06 17:06		<input type="checkbox"/>
6	LLSTD2			1.0	12/21/06 17:10		<input type="checkbox"/>
7	ICSA			1.0	12/21/06 17:33		<input type="checkbox"/>
8	ICSAB			1.0	12/21/06 17:36		<input type="checkbox"/>
9	Rinse			1.0	12/21/06 17:57		<input type="checkbox"/>
10	CCV 1			1.0	12/21/06 18:01		<input type="checkbox"/>
11	CCB 1			1.0	12/21/06 18:05		<input type="checkbox"/>
14	CCV 2			1.0	12/21/06 18:09		<input type="checkbox"/>
15	CCB 2			1.0	12/21/06 18:12		<input type="checkbox"/>
16	JLC05C	G6L130000	6347212	2A	1.0	12/21/06 18:16	<input type="checkbox"/>
17	JLC05L	G6L130000	6347212	2A	1.0	12/21/06 18:20	<input type="checkbox"/>
18	Rinse				1.0	12/21/06 18:24	<input type="checkbox"/>
19	JLC05B	G6L130000	6347212	2A	1.0	12/21/06 18:28	<input type="checkbox"/>
20	JKRXA	G6L050146-1	6347212	2A	1.0	12/21/06 18:32	<input type="checkbox"/>
21	JKRXAP5	G6L050146	6347212		5.0	12/21/06 18:36	<input type="checkbox"/>
22	JKRXAZ	G6L050146-1	6347212		1.0	12/21/06 18:40	<input type="checkbox"/>
23	JKRXC	G6L050146-2	6347212	2A	1.0	12/21/06 18:43	<input type="checkbox"/>
24	JKRXD	G6L050146-3	6347212	2A	1.0	12/21/06 18:47	<input type="checkbox"/>
25	JKRXE	G6L050146-4	6347212	2A	1.0	12/21/06 18:51	<input type="checkbox"/>
26	CCV 3				1.0	12/21/06 18:55	<input type="checkbox"/>
27	CCB 3				1.0	12/21/06 18:59	<input type="checkbox"/>
28	FB				1.0	12/21/06 19:03	<input type="checkbox"/>
29	LLSTD1				1.0	12/21/06 19:07	<input type="checkbox"/>
30	LLSTD2				1.0	12/21/06 19:11	<input type="checkbox"/>
31	ICSA				1.0	12/21/06 19:15	<input type="checkbox"/>
32	ICSAB				1.0	12/21/06 19:18	<input type="checkbox"/>
33	Rinse				1.0	12/21/06 19:22	<input type="checkbox"/>
34	CCV 4				1.0	12/21/06 19:26	<input type="checkbox"/>
35	CCB 4				1.0	12/21/06 19:30	<input type="checkbox"/>
36	CCV 5				1.0	12/21/06 19:34	<input type="checkbox"/>
37	CCB 5				1.0	12/21/06 19:38	<input type="checkbox"/>
38	JLXE4C	G6L210000	6355072	2A	1.0	12/21/06 19:42	<input type="checkbox"/>
39	JLXE4L	G6L210000	6355072	2A	1.0	12/21/06 19:46	<input type="checkbox"/>
40	Rinse				1.0	12/21/06 19:50	<input type="checkbox"/>
41	JLXE4B	G6L210000	6355072	2A	1.0	12/21/06 19:54	<input type="checkbox"/>
42	JLVJ9	G6L200175-1	6355072	2A	1.0	12/21/06 19:58	<input type="checkbox"/>
43	JLVJ9P5	G6L200175	6355072		5.0	12/21/06 20:01	<input type="checkbox"/>
44	JLVJ9X	G6L200175-1	6355072	2A	1.0	12/21/06 20:05	<input type="checkbox"/>
45	JLVJ9Z	G6L200175-1	6355072		1.0	12/21/06 20:09	<input type="checkbox"/>
46	JLVKA	G6L200175-2	6355072	2A	1.0	12/21/06 20:13	<input type="checkbox"/>
47	JLVKC	G6L200175-3	6355072	2A	1.0	12/21/06 20:17	<input type="checkbox"/>
48	CCV 6				1.0	12/21/06 20:21	<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/22/06 14:13:33

File ID: 061221B1

Analyst: ionesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	CCB 6			1.0	12/21/06 20:25		<input type="checkbox"/>
50	CCV 7			1.0	12/21/06 20:29		<input type="checkbox"/>
51	CCB 7			1.0	12/21/06 20:32		<input type="checkbox"/>
52	JLVKD	G6L200175-4	6355072	2A	1.0 12/21/06 20:36		<input type="checkbox"/>
53	JLVKE	G6L200175-5	6355072	2A	1.0 12/21/06 20:40		<input type="checkbox"/>
54	JLVKG	G6L200175-6	6355072	2A	1.0 12/21/06 20:44		<input type="checkbox"/>
55	JLVKH	G6L200175-7	6355072	2A	1.0 12/21/06 20:48		<input type="checkbox"/>
56	JLVKJ	G6L200175-8	6355072	2A	1.0 12/21/06 20:52		<input type="checkbox"/>
57	JLVKK	G6L200175-9	6355072	2A	1.0 12/21/06 20:56		<input type="checkbox"/>
58	JLVKN	G6L200175-10	6355072	2A	1.0 12/21/06 21:00		<input type="checkbox"/>
59	JLVKP	G6L200175-11	6355072	2A	1.0 12/21/06 21:04		<input type="checkbox"/>
60	JLVKR	G6L200175-12	6355072	2A	1.0 12/21/06 21:08		<input type="checkbox"/>
61	JLVKT	G6L200175-13	6355072	2A	1.0 12/21/06 21:12		<input type="checkbox"/>
62	CCV 8			1.0	12/21/06 21:15		<input type="checkbox"/>
63	CCB 8			1.0	12/21/06 21:19		<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/22/06 14:13:33

File ID: 061221B1

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Blank	12/21/06 16:50	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
2	Standard1	12/21/06 16:54	94.1	96.3	102.1	94.2	<input checked="" type="checkbox"/>
3	ICV	12/21/06 16:58	94.6	94.2	105.7	94.9	<input checked="" type="checkbox"/>
4	ICB	12/21/06 17:02	96.2	98.1	99.7	100.4	<input checked="" type="checkbox"/>
5	LLSTD1	12/21/06 17:06	91.8	101.7	94.0	93.6	<input checked="" type="checkbox"/>
6	LLSTD2	12/21/06 17:10	92.4	100.6	92.7	93.8	<input checked="" type="checkbox"/>
7	ICSA	12/21/06 17:33	68.7	79.0	72.4	75.3	<input type="checkbox"/>
8	ICSAB	12/21/06 17:36	66.8	80.4	64.7	74.2	<input type="checkbox"/>
9	Rinse	12/21/06 17:57	97.3	98.5	87.6	103.6	<input checked="" type="checkbox"/>
10	CCV 1	12/21/06 18:01	94.8	95.8	89.4	98.8	<input checked="" type="checkbox"/>
11	CCB 1	12/21/06 18:05	92.6	102.6	84.6	102.6	<input checked="" type="checkbox"/>
14	CCV 2	12/21/06 18:09	88.8	101.1	84.8	95.8	<input checked="" type="checkbox"/>
15	CCB 2	12/21/06 18:12	92.9	104.2	84.6	103.2	<input checked="" type="checkbox"/>
16	JLC05C	12/21/06 18:16	90.7	96.5	80.8	96.6	<input checked="" type="checkbox"/>
17	JLC05L	12/21/06 18:20	86.4	97.8	80.6	93.9	<input checked="" type="checkbox"/>
18	Rinse	12/21/06 18:24	89.4	103.5	84.0	99.0	<input checked="" type="checkbox"/>
19	JLC05B	12/21/06 18:28	93.4	102.1	82.4	105.2	<input checked="" type="checkbox"/>
20	JKRXA	12/21/06 18:32	89.8	103.0	81.1	95.8	<input checked="" type="checkbox"/>
21	JKRXAP5	12/21/06 18:36	92.1	100.5	86.7	94.1	<input type="checkbox"/>
22	JKRXAZ	12/21/06 18:40	88.9	102.2	83.3	101.0	<input checked="" type="checkbox"/>
23	JKRXC	12/21/06 18:43	94.2	98.0	83.8	100.1	<input checked="" type="checkbox"/>
24	JKRXD	12/21/06 18:47	91.4	106.8	84.7	101.7	<input checked="" type="checkbox"/>
25	JKRXE	12/21/06 18:51	94.8	100.8	87.3	98.5	<input checked="" type="checkbox"/>
26	CCV 3	12/21/06 18:55	98.7	96.2	99.7	99.4	<input checked="" type="checkbox"/>
27	CCB 3	12/21/06 18:59	97.3	104.9	91.0	106.3	<input checked="" type="checkbox"/>
28	FB	12/21/06 19:03	101.3	101.7	88.6	107.7	<input checked="" type="checkbox"/>
29	LLSTD1	12/21/06 19:07	98.1	100.4	92.8	100.0	<input checked="" type="checkbox"/>
30	LLSTD2	12/21/06 19:11	99.7	100.4	93.0	100.9	<input checked="" type="checkbox"/>
31	ICSA	12/21/06 19:15	71.2	82.8	69.6	79.0	<input checked="" type="checkbox"/>
32	ICSAB	12/21/06 19:18	70.1	81.6	65.4	80.9	<input checked="" type="checkbox"/>
33	Rinse	12/21/06 19:22	93.1	100.6	71.4	100.2	<input checked="" type="checkbox"/>
34	CCV 4	12/21/06 19:26	91.1	96.1	77.2	93.6	<input checked="" type="checkbox"/>
35	CCB 4	12/21/06 19:30	92.3	98.5	74.5	94.4	<input checked="" type="checkbox"/>
36	CCV 5	12/21/06 19:34	93.0	99.7	81.4	102.5	<input checked="" type="checkbox"/>
37	CCB 5	12/21/06 19:38	96.7	98.6	78.7	98.1	<input checked="" type="checkbox"/>
38	JLXE4C	12/21/06 19:42	93.1	96.0	74.7	98.2	<input checked="" type="checkbox"/>
39	JLXE4L	12/21/06 19:46	86.4	101.0	73.9	93.4	<input checked="" type="checkbox"/>
40	Rinse	12/21/06 19:50	93.9	96.0	79.7	95.6	<input checked="" type="checkbox"/>
41	JLXE4B	12/21/06 19:54	95.9	97.7	77.2	101.0	<input checked="" type="checkbox"/>
42	JLVJ9	12/21/06 19:58	91.2	107.2	76.7	100.3	<input checked="" type="checkbox"/>
43	JLVJ9P5	12/21/06 20:01	96.0	99.8	82.5	96.9	<input type="checkbox"/>
44	JLVJ9X	12/21/06 20:05	99.3	100.0	81.9	104.4	<input checked="" type="checkbox"/>
45	JLVJ9Z	12/21/06 20:09	94.4	95.1	80.0	98.0	<input checked="" type="checkbox"/>
46	JLVKA	12/21/06 20:13	91.5	98.5	77.3	95.6	<input checked="" type="checkbox"/>
47	JLVKC	12/21/06 20:17	93.9	103.9	79.0	104.0	<input checked="" type="checkbox"/>
48	CCV 6	12/21/06 20:21	94.7	100.0	88.4	103.6	<input checked="" type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/22/06 14:13:33

File ID: 061221B1

Analyst: ionesb

Germanium

Indium

Lithium-6

Thulium

Q

# Sample ID Analyzed Date

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	CCB 6	12/21/06 20:25	96.6	104.1	84.6	106.6	<input checked="" type="checkbox"/>
50	CCV 7	12/21/06 20:29	92.0	102.9	85.4	100.1	<input checked="" type="checkbox"/>
51	CCB 7	12/21/06 20:32	94.1	105.5	82.4	97.3	<input checked="" type="checkbox"/>
52	JLVKD	12/21/06 20:36	98.7	98.3	80.9	104.0	<input checked="" type="checkbox"/>
53	JLVKE	12/21/06 20:40	99.4	98.9	82.1	104.5	<input checked="" type="checkbox"/>
54	JLVKG	12/21/06 20:44	95.5	106.2	82.2	107.1	<input checked="" type="checkbox"/>
55	JLVKH	12/21/06 20:48	96.6	105.6	83.1	107.8	<input checked="" type="checkbox"/>
56	JLVKJ	12/21/06 20:52	99.6	99.0	85.4	103.7	<input checked="" type="checkbox"/>
57	JLVKK	12/21/06 20:56	100.1	101.5	86.5	107.3	<input checked="" type="checkbox"/>
58	JLVKN	12/21/06 21:00	98.4	103.7	86.2	110.7	<input checked="" type="checkbox"/>
59	JLVKP	12/21/06 21:04	96.9	107.0	85.7	108.8	<input checked="" type="checkbox"/>
60	JLVKR	12/21/06 21:08	95.6	108.0	86.0	105.2	<input checked="" type="checkbox"/>
61	JLVKT	12/21/06 21:12	102.3	100.1	88.6	105.8	<input checked="" type="checkbox"/>
62	CCV 8	12/21/06 21:15	94.8	102.8	92.4	99.3	<input checked="" type="checkbox"/>
63	CCB 8	12/21/06 21:19	98.7	102.8	89.2	99.6	<input checked="" type="checkbox"/>

# STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 6347212R.mth  
File Path: C:\elandata\Method\6347212R.mth

## Timing Parameters

Sweeps/Reading: 50  
Readings/Replicate: 1  
Number of Replicates: 3  
Tuning File: c:\elandata\Tuning\default.tun  
Optimization File: c:\elandata\Optimize\default.dac  
QC Enabled: Yes  
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms

## Signal Processing

Detector Mode: Dual  
Measurement Units: Counts

Report Date/Time: Friday, December 22, 2006 11:51:15

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AutoLens: On  
 Spectral Peak Processing: Average  
 Signal Profile Processing: Average  
 Blank Subtraction: After Internal Standard  
 Baseline Readings: 0  
 Smoothing: Yes, Factor 5

### Equations

Analyte	Mass	Corrections
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

### Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L		100		
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L		100		
Mn	54.938	Linear Thru Zero	ug/L	ug/L		100		
Co	58.933	Linear Thru Zero	ug/L	ug/L		100		
Ni	59.933	Linear Thru Zero	ug/L	ug/L		100		
Cu	64.928	Linear Thru Zero	ug/L	ug/L		100		
Zn	67.925	Linear Thru Zero	ug/L	ug/L		100		
As	74.922	Linear Thru Zero	ug/L	ug/L		100		
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100			
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50			
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100			
In-1	114.904	Linear Thru Zero	ug/L	ug/L				
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100			
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L				
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100			
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100			
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100			
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100			
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100			
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100			
In	114.904	Linear Thru Zero	ug/L	ug/L				
207.977	207.977	Linear Thru Zero	ug/L	ug/L		100		
Pb	206.976	Linear Thru Zero	ug/L	ug/L		100		
Pb	205.975	Linear Thru Zero	ug/L	ug/L		100		
Tm	168.934	Linear Thru Zero	ug/L	ug/L				

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Pd	105.903	Linear Thru Zero	ug/L	ug/L	100
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8**

**AIR TOX STANDARDS - 4 % HNO<sub>3</sub>, 0.5 % HCl**

**Standards for run:**

Tuning standard: 2830-25D

Internal standard: 2830-28A

Blank, CCBs: 2531-36F

Standard 1, CCVs: 2830-27E

ICV: 2830-18D

ICSA: 2830-26E

ICSAB: 2830-28E

File Number: 061221B1

## Instrument Tuning Report - Elan 6000

File Name: default.tun

### Sample Information

Sample Date/Time: Thursday, December 21, 2006 13:13:49

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1576	0.705	2021	
Be	9.012	9.079	2084	0.717	2006	
Co	58.933	58.978	14300	0.732	1882	
In	114.904	114.878	27960	0.732	1843	
Ce	139.905	139.929	34043	0.730	1889	
Tl	204.975	204.979	49745	0.723	2110	
Pb	207.977	207.979	50476	0.705	2132	
U	238.050	238.076	57689	0.695	2298	

Report Date/Time: Thursday, December 21, 2006 15:17:14

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# Elan 6000 Instrument Optimization Report

File Name c:\elandata\Optimize\default.dac

Path c:\elandata\Optimize

## Sample Information

Sample Date/Time: Thursday, December 21, 2006 13:13:49

Sample ID: TUNE BJONES

## Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	6.8
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

## AutoLens Calibration

Date: 13:21:04 Thu 21-Dec-06

Sample Filename: AUTOLENS BJONES.002

Dataset Pathname: c:\elandata\Dataset\061221A1\

Lens Voltage Start:	3.00 V
Lens Voltage End:	8.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0259
Intercept:	3.8383

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.0 V	5839 cps	21
Co	58.934	5.5 V	157041 cps	21
In	114.903	6.8 V	266922 cps	21

## Dual Detector Calibration

Date: 12:08:41 Sat 09-Dec-06

Sample Filename: DUAL BJONES.788

Dataset Pathname: c:\elandata\Dataset\dual detector calibration\

Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.016	5919	2.12e+009 cps
Li	7.016	5484	2.28e+009 cps
Be	9.012	5119	2.45e+009 cps
B	11.011	5338	2.35e+009 cps
Na	22.991	5317	2.35e+009 cps

Report Date/Time: Thursday, December 21, 2006 15:17:22

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STL SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8

Mg	23.984	5074 2.47e+009 cps
Mg	24.984	4843 2.58e+009 cps
Al	26.981	4776 2.62e+009 cps
P	30.995	4360 2.87e+009 cps
K	38.965	4229 2.96e+009 cps
Ca	42.959	cps
Ca	43.955	4296 2.91e+009 cps
Sc	44.956	4236 2.96e+009 cps
V	50.946	4191 2.99e+009 cps
Cr	51.942	4051 3.09e+009 cps
Fe	53.939	4063 3.08e+009 cps
Mn	54.939	4004 3.13e+009 cps
Fe	56.936	3882 3.22e+009 cps
Co	58.934	3807 3.29e+009 cps
Ni	59.935	3796 3.30e+009 cps
Cu	62.931	3687 3.40e+009 cps
Cu	64.927	3732 3.35e+009 cps
Zn	67.924	3713 3.37e+009 cps
Ge	71.920	3718 3.37e+009 cps
As	74.920	3658 3.42e+009 cps
Se	77.917	3810 3.29e+009 cps
Br	78.917	cps
Se	81.917	3613 3.46e+009 cps
Sr	87.906	3640 3.44e+009 cps
Mo	96.907	3748 3.34e+009 cps
Ag	106.905	3458 3.62e+009 cps
Ag	108.905	3464 3.61e+009 cps
Cd	110.905	3480 3.60e+009 cps
Cd	113.906	3502 3.57e+009 cps
In	114.903	3528 3.55e+009 cps
Sn	117.900	3583 3.49e+009 cps
Sb	120.905	3456 3.62e+009 cps
Ba	134.906	3424 3.66e+009 cps
Tm	168.932	3386 3.70e+009 cps
Tl	204.974	3200 3.91e+009 cps
Pb	207.979	3230 3.88e+009 cps
Bi	208.979	cps
U	238.050	3234 3.87e+009 cps

## Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES

Sample Date/Time: Thursday, December 21, 2006 13:29:12

Sample Description:

Sample File: C:\elandata\Sample\6354182R.sam

Method File: C:\elandata\Method\000-DAILY\_EPA.mth

Dataset File: c:\elandata\dataset\061221a1\DJAILY BJONES.004

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 5

Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	53196.683	663.361	1.247
Rh	103	201310.398	3158.081	1.569
Pb	208	155878.495	830.955	0.533
[> Ba	138	227672.943	3790.423	1.665
[< Ba++	69	0.023	0.001	2.230
[> Ce	140	277504.173	4035.776	1.454
[< CeO	156	0.035	0.001	2.856
Bkgd	220	1.714	1.195	69.722
Li	7	5445.472	91.836	1.686
Be	9	2101.605	44.660	2.125
Co	59	121272.355	1360.437	1.122
In	115	259952.410	4822.752	1.855
Tl	205	224748.070	2376.163	1.057

Sample ID: JLVJ9 n.i.

Sample Description: G6L200175-1 N.I.

Batch ID: 6355072

Sample Date/Time: Thursday, December 21, 2006 16:35:50

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\061221B1\JLVJ9 n.i..001

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 64

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			142.858	ug/L	0.000
45 Sc			17065.340	ug/L	0.000
69 Ga			28724.394	ug/L	0.000
72 Ge			2040.167	ug/L	0.000
89 Y			24291.199	ug/L	0.000
103 Rh			508.582	ug/L	0.000
115 In			12485.495	ug/L	0.000
133 Cs			3850.593	ug/L	0.000
165 Ho			1127.194	ug/L	0.000
169 Tm			6084.566	ug/L	0.000
209 Bi			11173.563	ug/L	0.000

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.577
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	
Bi	209	102.839

Report Date/Time: Thursday, December 21, 2006 16:36:26

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Sample ID: JLVJ9 n.i.

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SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse 3X**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 16:46:10

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\Rinse 3X.002

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1350665.983	ug/L	0.000
6 Li-1				233375.761	ug/L	0.000
9 Be				1.333	ug/L	0.000
27 Al				28942.128	ug/L	0.000
44 Ca				7952.949	ug/L	0.000
52 Cr				21868.970	ug/L	0.000
55 Mn				881.044	ug/L	0.000
59 Co				48.333	ug/L	0.000
60 Ni				35.153	ug/L	0.000
65 Cu				117.275	ug/L	0.000
68 Zn				640.357	ug/L	0.000
75 As				16301.788	ug/L	0.000
72 Ge-1				1164757.175	ug/L	0.000
111 Cd				64.822	ug/L	0.000
121 Sb				93.000	ug/L	0.000
135 Ba				74.334	ug/L	0.000
115 In-1				996714.685	ug/L	0.000
208 Pb				816.015	ug/L	0.000
169 Tm-1				836381.688	ug/L	0.000
50 Cr				-60.718	ug/L	0.000
53 Cr				22186.380	ug/L	0.000
61 Ni				2091.701	ug/L	0.000
63 Cu				93.335	ug/L	0.000
67 Zn				930.806	ug/L	0.000
66 Zn				163.338	ug/L	0.000
72 Ge				1164757.175	ug/L	0.000
108 Cd				8.297	ug/L	0.000
114 Cd				166.081	ug/L	0.000
115 In				996714.685	ug/L	0.000
208 207.977				427.344	ug/L	0.000
207 Pb				178.669	ug/L	0.000
206 Pb				210.003	ug/L	0.000
169 Tm				836381.688	ug/L	0.000
106 Pd				8.333	ug/L	0.000
83 Kr				360.007	ug/L	0.000

Report Date/Time: Thursday, December 21, 2006 16:47:50

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Sample ID: Rinse 3X

## Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
--------------	--------------------

Sc	45
Li-1	6
Be	9
Al	27
Ca	44
Cr	52
Mn	55
Co	59
Ni	60
Cu	65
Zn	68
As	75
Ge-1	72
Cd	111
Sb	121
Ba	135
In-1	115
Pb	208
Tm-1	169
Cr	50
Cr	53
Ni	61
Cu	63
Zn	67
Zn	66
Ge	72
Cd	108
Cd	114
In	115
207.977	208
Pb	207
Pb	206
Tm	169
Pd	106
Kr	83

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Sample ID: Rinse 3X

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SOP No. SAC-MT-0001

BJones

**Sample ID: Blank**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 16:50:22

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\Blank.003

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1352424.121	ug/L	
6 Li-1			221935.346	ug/L	
9 Be			0.000	ug/L	
27 Al			26094.190	ug/L	
44 Ca			7428.819	ug/L	
52 Cr			21889.693	ug/L	
55 Mn			832.040	ug/L	
59 Co			47.667	ug/L	
60 Ni			32.945	ug/L	
65 Cu			93.203	ug/L	
68 Zn			537.017	ug/L	
75 As			15906.723	ug/L	
72 Ge-1			1135020.763	ug/L	
111 Cd			71.806	ug/L	
121 Sb			68.334	ug/L	
135 Ba			67.334	ug/L	
115 In-1			985049.531	ug/L	
208 Pb			831.016	ug/L	
169 Tm-1			802031.974	ug/L	
50 Cr			-59.729	ug/L	
53 Cr			21251.170	ug/L	
61 Ni			1904.247	ug/L	
63 Cu			74.334	ug/L	
67 Zn			762.761	ug/L	
66 Zn			141.337	ug/L	
72 Ge			1135020.763	ug/L	
108 Cd			2.630	ug/L	
114 Cd			179.672	ug/L	
115 In			985049.531	ug/L	
208 207.977			455.345	ug/L	
207 Pb			170.668	ug/L	
206 Pb			205.002	ug/L	
169 Tm			802031.974	ug/L	
106 Pd			8.667	ug/L	
83 Kr			345.340	ug/L	

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Sample ID: Blank

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	
Be	9	
[> Al	27	
Ca	44	
[> Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	
Pb	208	
[> Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	
Cd	108	
Cd	114	
[> In	115	
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	
Pd	106	
Kr	83	

Report Date/Time: Thursday, December 21, 2006 16:52:01

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Sample ID: Blank

G6L050146

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SOP No. SAC-MT-0001

BJones

**Sample ID: Standard 1**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 16:54:27

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\Standard 1.004

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1354051.660	ug/L	1352424.121
6 Li-1			226642.425	ug/L	221935.346
9 Be	100.000000	0.190	14058.956	ug/L	0.000
27 Al	5100.000000	0.698	20794832.268	ug/L	26094.190
44 Ca	5100.000000	1.126	1291056.933	ug/L	7428.819
52 Cr	100.000000	1.385	884354.929	ug/L	21889.693
55 Mn	100.000000	1.024	1338206.800	ug/L	832.040
59 Co	100.000000	0.980	939323.133	ug/L	47.667
60 Ni	100.000000	1.111	194491.322	ug/L	32.945
65 Cu	100.000000	0.668	195138.341	ug/L	93.203
68 Zn	100.000000	0.938	77028.906	ug/L	537.017
75 As	100.000000	1.490	196855.694	ug/L	15906.723
72 Ge-1			1068029.120	ug/L	1135020.763
111 Cd	100.000000	0.859	153406.245	ug/L	71.806
121 Sb	50.000000	0.456	232374.962	ug/L	68.334
135 Ba	100.000000	1.824	154429.179	ug/L	67.334
115 In-1			948923.152	ug/L	985049.531
208 Pb	100.000000	0.919	2087705.555	ug/L	831.016
169 Tm-1			755142.093	ug/L	802031.974
50 Cr	100.000000	10.603	20339.540	ug/L	-59.729
53 Cr	100.000000	6.839	63866.894	ug/L	21251.170
61 Ni	100.000000	1.267	5001.332	ug/L	1904.247
63 Cu	100.000000	1.952	142585.254	ug/L	74.334
67 Zn	100.000000	1.554	7343.285	ug/L	762.761
66 Zn	100.000000	0.534	35223.412	ug/L	141.337
72 Ge			1068029.120	ug/L	1135020.763
108 Cd	100.000000	0.304	11241.157	ug/L	2.630
114 Cd	100.000000	0.319	356188.641	ug/L	179.672
115 In			948923.152	ug/L	985049.531
208 207.977	100.000000	1.087	1077142.955	ug/L	455.345
207 Pb	100.000000	1.451	439723.257	ug/L	170.668
206 Pb	100.000000	0.350	570839.343	ug/L	205.002
169 Tm			755142.093	ug/L	802031.974
106 Pd	100.000000	2.104	14861.948	ug/L	8.667
83 Kr	100.000000	136.956	330.006	ug/L	345.340

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Sample ID: Standard 1

G6L050146

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45
> Li-1	6
Be	9
> Al	27
Ca	44
Cr	52
Mn	55
Co	59
Ni	60
Cu	65
Zn	68
As	75
> Ge-1	72
Cd	111
Sb	121
Ba	135
> In-1	115
Pb	208
> Tm-1	169
Cr	50
Cr	53
Ni	61
Cu	63
Zn	67
Zn	66
> Ge	72
Cd	108
Cd	114
> In	115
207.977	208
Pb	207
Pb	206
> Tm	169
Pd	106
Kr	83

SOP No. SAC-MT-0001

BJones

**Sample ID: ICV**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 16:58:17

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\ICV .005

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1286981.858	ug/L	1352424.121	
6 Li-1					234652.568	ug/L	221935.346	
9 Be	81.898709	0.549			11920.448	ug/L	0.000	
27 Al	860.417760	0.299			3547513.088	ug/L	26094.190	
44 Ca	848.179789	1.252			221707.041	ug/L	7428.819	
52 Cr	77.499207	1.505			693629.868	ug/L	21889.693	
55 Mn	79.204734	0.532			1065802.246	ug/L	832.040	
59 Co	80.024195	0.193			755701.991	ug/L	47.667	
60 Ni	82.408577	0.384			161133.178	ug/L	32.945	
65 Cu	83.274289	1.242			163373.567	ug/L	93.203	
68 Zn	82.431295	0.890			63931.055	ug/L	537.017	
75 As	79.086439	0.585			159678.226	ug/L	15906.723	
72 Ge-1					1073741.946	ug/L	1135020.763	
111 Cd	79.401709	1.275			119117.135	ug/L	71.806	
121 Sb	40.517143	0.539			184135.997	ug/L	68.334	
135 Ba	83.117171	0.634			125543.944	ug/L	67.334	
115 In-1					927833.349	ug/L	985049.531	
208 Pb	81.596285	0.247			1717886.866	ug/L	831.016	
169 Tm-1					761447.817	ug/L	802031.974	
50 Cr	71.866264	3.938			14665.278	ug/L	-59.729	
53 Cr	79.944077	3.138			55343.228	ug/L	21251.170	
61 Ni	81.954720	3.613			4446.162	ug/L	1904.247	
63 Cu	83.929115	0.900			120299.188	ug/L	74.334	
67 Zn	83.958569	2.341			6314.375	ug/L	762.761	
66 Zn	81.479609	0.697			28879.165	ug/L	141.337	
72 Ge					1073741.946	ug/L	1135020.763	
108 Cd	75.929582	0.307			8346.508	ug/L	2.630	
114 Cd	79.994172	1.150			278636.165	ug/L	179.672	
115 In					927833.349	ug/L	985049.531	
208 207.977	81.646558	0.213			886892.335	ug/L	455.345	
207 Pb	81.554919	0.397			361648.509	ug/L	170.668	
206 Pb	81.533292	0.801			469346.022	ug/L	205.002	
169 Tm					761447.817	ug/L	802031.974	
106 Pd	77.074972	0.336			11456.829	ug/L	8.667	
83 Kr	208.695481	11.831			313.339	ug/L	345.340	

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Sample ID: ICV

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
> Li-1	6	105.730
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	94.601
Cd	111	
Sb	121	
Ba	135	
> In-1	115	94.192
Pb	208	
> Tm-1	169	94.940
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	94.601
Cd	108	
Cd	114	
> In	115	94.192
207.977	208	
Pb	207	
Pb	206	
> Tm	169	94.940
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICB**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 17:02:12

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\ICB.006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1238536.107	ug/L	1352424.121	
6 Li-1					221326.832	ug/L	221935.346	
9 Be	0.009547	113.685			1.333	ug/L	0.000	
27 Al	-0.359190	22.619			23599.458	ug/L	26094.190	
44 Ca	0.901236	52.978			7375.775	ug/L	7428.819	
52 Cr	0.087349	44.482			21822.187	ug/L	21889.693	
55 Mn	0.005259	41.039			872.043	ug/L	832.040	
59 Co	0.003175	37.134			76.334	ug/L	47.667	
60 Ni	0.000547	202.187			32.760	ug/L	32.945	
65 Cu	0.007141	46.298			103.827	ug/L	93.203	
68 Zn	-0.041364	31.162			484.013	ug/L	537.017	
75 As	0.027358	1766.786			15342.894	ug/L	15906.723	
72 Ge-1					1091465.881	ug/L	1135020.763	
111 Cd	-0.010441	8.258			54.111	ug/L	71.806	
121 Sb	0.056429	10.879			334.006	ug/L	68.334	
135 Ba	0.004833	184.116			73.667	ug/L	67.334	
115 In-1					965938.505	ug/L	985049.531	
208 Pb	-0.005327	60.403			716.011	ug/L	831.016	
169 Tm-1					805562.784	ug/L	802031.974	
50 Cr	0.076678	95.379			-41.548	ug/L	-59.729	
53 Cr	-4.349001	55.266			18492.377	ug/L	21251.170	
61 Ni	4.179278	45.638			1967.953	ug/L	1904.247	
63 Cu	-0.003061	196.711			67.001	ug/L	74.334	
67 Zn	2.145039	58.246			879.125	ug/L	762.761	
66 Zn	-0.104870	29.369			98.335	ug/L	141.337	
72 Ge					1091465.881	ug/L	1135020.763	
108 Cd	0.009167	284.760			3.630	ug/L	2.630	
114 Cd	-0.008138	24.036			146.677	ug/L	179.672	
115 In					965938.505	ug/L	985049.531	
208 207.977	-0.007399	47.951			372.341	ug/L	455.345	
207 Pb	-0.004562	69.762			150.001	ug/L	170.668	
206 Pb	-0.002007	172.381			193.669	ug/L	205.002	
169 Tm					805562.784	ug/L	802031.974	
106 Pd	0.006733	208.167			9.667	ug/L	8.667	
83 Kr	180.434300	146.389			317.672	ug/L	345.340	

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Sample ID: ICB

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	99.726
Be	9	
[> Al	27	
Ca	44	
[> Cr	52	
Mn	55	
[> Co	59	
Ni	60	
Cu	65	
Zn	68	
[> As	75	
[> Ge-1	72	96.163
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.060
Pb	208	
[> Tm-1	169	100.440
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.163
Cd	108	
Cd	114	
[> In	115	98.060
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	100.440
Pd	106	
Kr	83	

BJones

**Sample ID: LLSTD1**

Sample Description: LL STD @10X

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 17:06:39

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\LLSTD1.007

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 9

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1310137.382	ug/L	1352424.121
6 Li-1			208677.113	ug/L	221935.346
9 Be	0.909041	7.117	117.667	ug/L	0.000
27 Al	59.878782	1.175	261882.810	ug/L	26094.190
44 Ca	59.222128	3.164	21366.730	ug/L	7428.819
52 Cr	1.380338	6.782	31727.438	ug/L	21889.693
55 Mn	1.165408	2.383	15971.568	ug/L	832.040
59 Co	1.083298	1.281	9971.346	ug/L	47.667
60 Ni	1.091965	3.047	2101.992	ug/L	32.945
65 Cu	1.101024	2.619	2180.881	ug/L	93.203
68 Zn	6.209933	1.649	5129.837	ug/L	537.017
75 As	0.992461	38.061	16365.465	ug/L	15906.723
72 Ge-1			1042057.221	ug/L	1135020.763
111 Cd	0.959978	4.777	1627.513	ug/L	71.806
121 Sb	0.327206	9.162	1673.494	ug/L	68.334
135 Ba	0.949522	3.033	1616.816	ug/L	67.334
115 In-1			1002274.598	ug/L	985049.531
208 Pb	1.020236	3.164	21928.042	ug/L	831.016
169 Tm-1			750329.246	ug/L	802031.974
50 Cr	2.167706	5.645	376.151	ug/L	-59.729
53 Cr	-1.460472	142.968	18884.633	ug/L	21251.170
61 Ni	0.876640	536.057	1775.840	ug/L	1904.247
63 Cu	1.125382	1.757	1632.760	ug/L	74.334
67 Zn	6.336548	9.788	1109.864	ug/L	762.761
66 Zn	6.534173	2.925	2366.896	ug/L	141.337
72 Ge			1042057.221	ug/L	1135020.763
108 Cd	1.026403	12.477	124.508	ug/L	2.630
114 Cd	0.987416	1.343	3896.556	ug/L	179.672
115 In			1002274.598	ug/L	985049.531
208 207.977	1.033635	2.835	11482.197	ug/L	455.345
207 Pb	0.992587	3.064	4493.821	ug/L	170.668
206 Pb	1.016252	4.011	5952.025	ug/L	205.002
169 Tm			750329.246	ug/L	802031.974
106 Pd	0.899921	10.321	142.334	ug/L	8.667
83 Kr	189.130237	67.777	316.339	ug/L	345.340

Report Date/Time: Thursday, December 21, 2006 17:08:16

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Sample ID: LLSTD1

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	94.026
Be	9	
[> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	91.810
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	101.749
Pb	208	
[> Tm-1	169	93.554
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	91.810
Cd	108	
Cd	114	
[> In	115	101.749
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	93.554
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: LLSTD2**

Sample Description: LL STD @5X

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 17:10:31

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\LLSTD2.008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1313344.922	ug/L	1352424.121
6 Li-1			205794.628	ug/L	221935.346
9 Be	2.031371	6.298	259.337	ug/L	0.000
27 Al	130.796776	1.081	546900.951	ug/L	26094.190
44 Ca	136.276025	1.698	40534.015	ug/L	7428.819
52 Cr	2.314091	4.991	39830.477	ug/L	21889.693
55 Mn	2.292191	3.149	30856.672	ug/L	832.040
59 Co	2.175661	1.466	20100.396	ug/L	47.667
60 Ni	2.158565	1.172	4149.984	ug/L	32.945
65 Cu	2.135506	2.431	4174.011	ug/L	93.203
68 Zn	10.670468	0.461	8511.138	ug/L	537.017
75 As	2.279221	7.560	18759.593	ug/L	15906.723
72 Ge-1			1048269.297	ug/L	1135020.763
111 Cd	1.966283	0.595	3221.628	ug/L	71.806
121 Sb	0.724431	4.879	3584.068	ug/L	68.334
135 Ba	2.006645	2.301	3304.291	ug/L	67.334
115 In-1			991204.775	ug/L	985049.531
208 Pb	2.089267	1.167	44196.235	ug/L	831.016
169 Tm-1			751969.188	ug/L	802031.974
50 Cr	4.181204	7.311	780.848	ug/L	-59.729
53 Cr	-4.152921	53.176	17838.188	ug/L	21251.170
61 Ni	-0.959857	111.827	1728.478	ug/L	1904.247
63 Cu	2.222330	0.634	3176.614	ug/L	74.334
67 Zn	10.792931	9.252	1406.317	ug/L	762.761
66 Zn	11.024974	0.120	3927.800	ug/L	141.337
72 Ge			1048269.297	ug/L	1135020.763
108 Cd	2.015071	10.048	239.202	ug/L	2.630
114 Cd	2.008761	1.730	7651.438	ug/L	179.672
115 In			991204.775	ug/L	985049.531
208 207.977	2.103640	1.504	22981.141	ug/L	455.345
207 Pb	2.054582	1.332	9153.119	ug/L	170.668
206 Pb	2.088866	0.489	12061.975	ug/L	205.002
169 Tm			751969.188	ug/L	802031.974
106 Pd	2.048968	6.924	313.006	ug/L	8.667
83 Kr	52.174077	36.084	337.340	ug/L	345.340

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Sample ID: LLSTD2

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	92.727
Be	9	
> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	92.357
Cd	111	
Sb	121	
Ba	135	
> In-1	115	100.625
Pb	208	
> Tm-1	169	93.758
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	92.357
Cd	108	
Cd	114	
> In	115	100.625
207.977	208	
Pb	207	
Pb	206	
> Tm	169	93.758
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 17:33:05

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\ICSA.009

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			912388.243	ug/L	1352424.121
6 Li-1			160576.824	ug/L	221935.346
9 Be	0.070308	14.682	7.000	ug/L	0.000
27 Al	83155.854439	2.213	247488001.764	ug/L	26094.190
44 Ca	77133.152719	1.854	14194696.511	ug/L	7428.819
52 Cr	2.754943	4.544	32421.626	ug/L	21889.693
55 Mn	5.553023	0.973	54830.969	ug/L	832.040
59 Co	2.706058	1.982	18602.097	ug/L	47.667
60 Ni	4.403362	4.327	6275.918	ug/L	32.945
65 Cu	0.186030	80.614	326.635	ug/L	93.203
68 Zn	3.911195	0.913	2555.707	ug/L	537.017
75 As	-0.089668	598.441	10807.832	ug/L	15906.723
72 Ge-1			780273.891	ug/L	1135020.763
111 Cd	0.322565	4.919	462.426	ug/L	71.806
121 Sb	0.261633	0.956	1051.063	ug/L	68.334
135 Ba	0.908819	4.001	1204.083	ug/L	67.334
115 In-1			778310.279	ug/L	985049.531
208 Pb	1.000143	3.558	17323.992	ug/L	831.016
169 Tm-1			604289.489	ug/L	802031.974
50 Cr	324.666391	2.911	48279.784	ug/L	-59.729
53 Cr	29.874525	11.960	24192.214	ug/L	21251.170
61 Ni	33.011822	5.719	2083.695	ug/L	1904.247
63 Cu	6.689516	1.409	7014.198	ug/L	74.334
67 Zn	33.836937	5.432	2162.082	ug/L	762.761
66 Zn	10.007174	1.026	2662.467	ug/L	141.337
72 Ge			780273.891	ug/L	1135020.763
108 Cd	75.889816	1.483	6997.688	ug/L	2.630
114 Cd	4.382057	1.414	12937.565	ug/L	179.672
115 In			778310.279	ug/L	985049.531
208 207.977	1.011781	5.481	9057.024	ug/L	455.345
207 Pb	1.033491	3.389	3762.809	ug/L	170.668
206 Pb	0.952496	0.498	4504.159	ug/L	205.002
169 Tm			604289.489	ug/L	802031.974
106 Pd	0.664280	14.201	107.334	ug/L	8.667
83 Kr	-1567.413548	21.324	585.686	ug/L	345.340

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Sample ID: ICSA

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	72.353
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	68.745
Cd	111	
Sb	121	
Ba	135	
> In-1	115	79.012
Pb	208	
> Tm-1	169	75.345
Cr.	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	68.745
Cd	108	
Cd	114	
> In	115	79.012
207.977	208	
Pb	207	
Pb	206	
> Tm	169	75.345
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 17:36:57

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\ICSAB.010

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			836590.579	ug/L	1352424.121
6 Li-1			143559.664	ug/L	221935.346
9 Be	88.969001	0.969	7922.586	ug/L	0.000
27 Al	74864.212010	0.748	216567835.974	ug/L	26094.190
44 Ca	71884.751901	0.699	12859066.534	ug/L	7428.819
52 Cr	105.596200	0.338	662346.122	ug/L	21889.693
55 Mn	109.880876	0.445	1044316.863	ug/L	832.040
59 Co	111.414103	0.092	743259.177	ug/L	47.667
60 Ni	107.755975	0.309	148834.460	ug/L	32.945
65 Cu	94.124402	0.355	130441.087	ug/L	93.203
68 Zn	92.923157	0.148	50865.771	ug/L	537.017
75 As	106.046293	1.204	147618.079	ug/L	15906.723
72 Ge-1			758545.988	ug/L	1135020.763
111 Cd	97.431530	0.477	124687.803	ug/L	71.806
121 Sb	47.051844	0.905	182425.068	ug/L	68.334
135 Ba	97.910017	0.355	126168.213	ug/L	67.334
115 In-1			791624.532	ug/L	985049.531
208 Pb	109.475945	1.104	1799960.776	ug/L	831.016
169 Tm-1			594738.585	ug/L	802031.974
50 Cr	410.035570	2.564	59291.943	ug/L	-59.729
53 Cr	96.576533	2.329	44282.391	ug/L	21251.170
61 Ni	134.845870	5.904	4347.694	ug/L	1904.247
63 Cu	103.823147	1.161	105107.044	ug/L	74.334
67 Zn	118.892325	0.141	6104.959	ug/L	762.761
66 Zn	104.602651	0.618	26164.765	ug/L	141.337
72 Ge			758545.988	ug/L	1135020.763
108 Cd	171.551955	1.017	16085.662	ug/L	2.630
114 Cd	99.827655	0.263	296630.478	ug/L	179.672
115 In			791624.532	ug/L	985049.531
208 207.977	108.737181	1.618	922415.056	ug/L	455.345
207 Pb	109.131652	0.523	377934.146	ug/L	170.668
206 Pb	111.135104	1.112	499611.574	ug/L	205.002
169 Tm			594738.585	ug/L	802031.974
106 Pd	81.960398	0.742	12182.475	ug/L	8.667
83 Kr	-1413.061501	20.418	562.018	ug/L	345.340

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Sample ID: ICSAB

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
> Li-1	6	64.685
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	66.831
Cd	111	
Sb	121	
Ba	135	
> In-1	115	80.364
Pb	208	
> Tm-1	169	74.154
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	66.831
Cd	108	
Cd	114	
> In	115	80.364
207.977	208	
Pb	207	
Pb	206	
> Tm	169	74.154
Pd	106	
Kr	83	

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 17:57:14

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\Rinse.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1185517.375	ug/L	1352424.121
6 Li-1			194521.334	ug/L	221935.346
9 Be	0.008325	100.871	1.000	ug/L	0.000
27 Al	-0.622888	11.645	22755.891	ug/L	26094.190
44 Ca	-1.119571	18.514	6933.413	ug/L	7428.819
52 Cr	-0.080245	22.082	20571.823	ug/L	21889.693
55 Mn	-0.000109	3394.082	807.704	ug/L	832.040
59 Co	0.000410	60.800	50.333	ug/L	47.667
60 Ni	0.000584	194.163	33.218	ug/L	32.945
65 Cu	0.009892	48.212	110.558	ug/L	93.203
68 Zn	-0.054703	58.489	479.013	ug/L	537.017
75 As	0.065422	341.709	15591.458	ug/L	15906.723
72 Ge-1			1103820.213	ug/L	1135020.763
111 Cd	-0.018962	35.030	41.075	ug/L	71.806
121 Sb	0.009607	17.006	113.001	ug/L	68.334
135 Ba	0.003886	299.519	72.334	ug/L	67.334
115 In-1			970314.387	ug/L	985049.531
208 Pb	-0.009771	16.131	636.676	ug/L	831.016
169 Tm-1			830516.642	ug/L	802031.974
50 Cr	0.023430	580.601	-53.210	ug/L	-59.729
53 Cr	1.212734	153.792	21218.549	ug/L	21251.170
61 Ni	11.003385	52.994	2216.456	ug/L	1904.247
63 Cu	0.010003	144.774	87.001	ug/L	74.334
67 Zn	3.346032	36.918	971.152	ug/L	762.761
66 Zn	-0.117978	17.966	94.668	ug/L	141.337
72 Ge			1103820.213	ug/L	1135020.763
108 Cd	0.013894	159.743	4.173	ug/L	2.630
114 Cd	-0.016277	13.206	117.779	ug/L	179.672
115 In			970314.387	ug/L	985049.531
208 207.977	-0.011066	15.281	340.673	ug/L	455.345
207 Pb	-0.008568	10.294	135.334	ug/L	170.668
206 Pb	-0.008253	30.433	160.668	ug/L	205.002
169 Tm			830516.642	ug/L	802031.974
106 Pd	-0.033663	80.829	3.667	ug/L	8.667
83 Kr	147.825923	117.748	322.673	ug/L	345.340

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Sample ID: Rinse

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	87.648
Be	9	
[> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	97.251
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.504
Pb	208	
[> Tm-1	169	103.552
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	97.251
Cd	108	
Cd	114	
[> In	115	98.504
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	103.552
Pd	106	
Kr	83	

**Sample ID: CCV 1**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:01:10

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\CCV 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity	
45 Sc			1182362.417	ug/L	1352424.121	
6 Li-1			198338.890	ug/L	221935.346	
9 Be	98.538512	0.287	12123.394	ug/L	0.000	
27 Al	4262.510995	0.915	17512190.985	ug/L	26094.190	
44 Ca	4387.430631	0.804	1119736.477	ug/L	7428.819	
52 Cr	94.979592	0.970	846958.798	ug/L	21889.693	
55 Mn	98.461785	0.774	1327262.858	ug/L	832.040	
59 Co	99.858454	0.783	944743.697	ug/L	47.667	
60 Ni	102.869370	1.316	201494.663	ug/L	32.945	
65 Cu	103.358379	0.907	203138.714	ug/L	93.203	
68 Zn	100.570105	0.528	78034.795	ug/L	537.017	
75 As	99.462965	0.203	197322.178	ug/L	15906.723	
72 Ge-1			1075822.873	ug/L	1135020.763	
111 Cd	98.398189	1.071	150102.699	ug/L	71.806	
121 Sb	51.065256	0.971	236001.068	ug/L	68.334	
135 Ba	104.309696	1.125	160211.476	ug/L	67.334	
115 In-1			943683.614	ug/L	985049.531	
208 Pb	100.942147	0.199	2211968.570	ug/L	831.016	
169 Tm-1			792598.540	ug/L	802031.974	
50 Cr	103.916245	6.541	21258.111	ug/L	-59.729	
53 Cr	91.964211	4.173	60743.097	ug/L	21251.170	
61 Ni	112.224243	4.004	5434.058	ug/L	1904.247	
63 Cu	103.942830	1.871	149231.138	ug/L	74.334	
67 Zn	100.423299	0.771	7425.145	ug/L	762.761	
66 Zn	102.724087	0.832	36441.588	ug/L	141.337	
72 Ge			1075822.873	ug/L	1135020.763	
108 Cd	98.719302	1.549	11034.928	ug/L	2.630	
114 Cd	98.700350	0.735	349598.052	ug/L	179.672	
115 In			943683.614	ug/L	985049.531	
208	207.977	100.483094	0.776	1136085.839	ug/L	455.345
207 Pb	101.631567	0.486	469055.443	ug/L	170.668	
206 Pb	101.277260	1.245	606827.288	ug/L	205.002	
169 Tm			792598.540	ug/L	802031.974	
106 Pd	94.845587	1.962	14096.348	ug/L	8.667	
83 Kr	50.000155	92.538	337.673	ug/L	345.340	

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	89.368
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	94.784
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	95.801
Pb	208	
[> Tm-1	169	98.824
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	94.784
Cd	108	
Cd	114	
[> In	115	95.801
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	98.824
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 1**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:05:05

Method File: C:\elandata\Method\6347212R.mth

Dataset File: C:\elandata\Dataset\061221B1\CCB 1.013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1183872.547	ug/L	1352424.121
6 Li-1			187750.026	ug/L	221935.346
9 Be	0.000000		0.000	ug/L	0.000
27 Al	-0.866536	8.752	20697.465	ug/L	26094.190
44 Ca	0.319670	201.284	6958.099	ug/L	7428.819
52 Cr	-0.038101	199.300	19943.039	ug/L	21889.693
55 Mn	0.006101	64.389	850.041	ug/L	832.040
59 Co	0.004235	6.302	83.334	ug/L	47.667
60 Ni	0.002541	158.692	35.220	ug/L	32.945
65 Cu	0.010562	49.517	106.599	ug/L	93.203
68 Zn	-0.095872	26.499	425.010	ug/L	537.017
75 As	0.673942	43.260	15932.220	ug/L	15906.723
72 Ge-1			1051521.414	ug/L	1135020.763
111 Cd	-0.018866	11.901	42.857	ug/L	71.806
121 Sb	0.003507	64.496	87.334	ug/L	68.334
135 Ba	0.005238	139.545	77.667	ug/L	67.334
115 In-1			1010514.089	ug/L	985049.531
208 Pb	-0.010701	18.328	608.675	ug/L	831.016
169 Tm-1			823249.565	ug/L	802031.974
50 Cr	0.047746	68.984	-45.711	ug/L	-59.729
53 Cr	-3.014354	45.552	18388.364	ug/L	21251.170
61 Ni	16.355715	4.239	2281.500	ug/L	1904.247
63 Cu	0.009755	39.830	82.668	ug/L	74.334
67 Zn	1.723909	75.358	820.776	ug/L	762.761
66 Zn	-0.124602	24.078	87.668	ug/L	141.337
72 Ge			1051521.414	ug/L	1135020.763
108 Cd	0.012898	269.717	4.235	ug/L	2.630
114 Cd	-0.017658	20.057	117.318	ug/L	179.672
115 In			1010514.089	ug/L	985049.531
208 207.977	-0.012769	15.480	317.006	ug/L	455.345
207 Pb	-0.010914	8.421	123.001	ug/L	170.668
206 Pb	-0.006634	61.571	168.668	ug/L	205.002
169 Tm			823249.565	ug/L	802031.974
106 Pd	-0.020198	19.245	5.667	ug/L	8.667
83 Kr	108.695575	157.873	328.673	ug/L	345.340

Report Date/Time: Thursday, December 21, 2006 18:06:44

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Sample ID: CCB 1

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	84.597
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	92.643
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	102.585
Pb	208	
[> Tm-1	169	102.645
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	92.643
Cd	108	
Cd	114	
[> In	115	102.585
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	102.645
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: BLK RECAL**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:05:05

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCB 1.013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1183872.547	ug/L	
6 Li-1			187750.026	ug/L	
9 Be			0.000	ug/L	
27 Al			20697.465	ug/L	
44 Ca			6958.099	ug/L	
52 Cr			19943.039	ug/L	
55 Mn			850.041	ug/L	
59 Co			83.334	ug/L	
60 Ni			35.220	ug/L	
65 Cu			106.599	ug/L	
68 Zn			425.010	ug/L	
75 As			15932.220	ug/L	
72 Ge-1			1051521.414	ug/L	
111 Cd			42.857	ug/L	
121 Sb			87.334	ug/L	
135 Ba			77.667	ug/L	
115 In-1			1010514.089	ug/L	
208 Pb			608.675	ug/L	
169 Tm-1			823249.565	ug/L	
50 Cr			-45.711	ug/L	
53 Cr			18388.364	ug/L	
61 Ni			2281.500	ug/L	
63 Cu			82.668	ug/L	
67 Zn			820.776	ug/L	
66 Zn			87.668	ug/L	
72 Ge			1051521.414	ug/L	
108 Cd			4.235	ug/L	
114 Cd			117.318	ug/L	
115 In			1010514.089	ug/L	
208 207.977			317.006	ug/L	
207 Pb			123.001	ug/L	
206 Pb			168.668	ug/L	
169 Tm			823249.565	ug/L	
106 Pd			5.667	ug/L	
83 Kr			328.673	ug/L	

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Sample ID: BLK RECAL

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	
[ Be	9	
[ Al	27	
[ Ca	44	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	
[ Pb	208	
[> Tm-1	169	
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	
[ Cd	108	
[ Cd	114	
[> In	115	
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: STD1 RECAL**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:01:10

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCV 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1182362.417	ug/L	1183872.547
6 Li-1			198338.890	ug/L	187750.026
9 Be	100.000000	0.287	12123.394	ug/L	0.000
27 Al	5100.000000	0.915	17512190.985	ug/L	20697.465
44 Ca	5100.000000	0.804	1119736.477	ug/L	6958.099
52 Cr	100.000000	0.969	846958.798	ug/L	19943.039
55 Mn	100.000000	0.774	1327262.858	ug/L	850.041
59 Co	100.000000	0.783	944743.697	ug/L	83.334
60 Ni	100.000000	1.316	201494.663	ug/L	35.220
65 Cu	100.000000	0.907	203138.714	ug/L	106.599
68 Zn	100.000000	0.528	78034.795	ug/L	425.010
75 As	100.000000	0.204	197322.178	ug/L	15932.220
72 Ge-1			1075822.873	ug/L	1051521.414
111 Cd	100.000000	1.071	150102.699	ug/L	42.857
121 Sb	50.000000	0.971	236001.068	ug/L	87.334
135 Ba	100.000000	1.125	160211.476	ug/L	77.667
115 In-1			943683.614	ug/L	1010514.089
208 Pb	100.000000	0.199	2211968.570	ug/L	608.675
169 Tm-1			792598.540	ug/L	823249.565
50 Cr	100.000000	6.544	21258.111	ug/L	-45.711
53 Cr	100.000000	4.041	60743.097	ug/L	18388.364
61 Ni	100.000000	4.688	5434.058	ug/L	2281.500
63 Cu	100.000000	1.871	149231.138	ug/L	82.668
67 Zn	100.000000	0.785	7425.145	ug/L	820.776
66 Zn	100.000000	0.831	36441.588	ug/L	87.668
72 Ge			1075822.873	ug/L	1051521.414
108 Cd	100.000000	1.549	11034.928	ug/L	4.235
114 Cd	100.000000	0.734	349598.052	ug/L	117.318
115 In			943683.614	ug/L	1010514.089
208 207.977	100.000000	0.776	1136085.839	ug/L	317.006
207 Pb	100.000000	0.486	469055.443	ug/L	123.001
206 Pb	100.000000	1.245	606827.288	ug/L	168.668
169 Tm			792598.540	ug/L	823249.565
106 Pd	100.000000	1.962	14096.348	ug/L	5.667
83 Kr	100.000000	78.829	337.673	ug/L	328.673

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Sample ID: STD1 RECAL

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
Li-1	6	
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Ge-1	72	
Cd	111	
Sb	121	
Ba	135	
In-1	115	
Pb	208	
Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Ge	72	
Cd	108	
Cd	114	
In	115	
207.977	208	
Pb	207	
Pb	206	
Tm	169	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 2**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:09:00

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCV 2.014

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1215374.669	ug/L	1183872.547
6 Li-1			188255.961	ug/L	187750.026
9 Be	101.354818	0.795	11663.438	ug/L	0.000
27 Al	5245.941699	0.334	16876902.706	ug/L	20697.465
44 Ca	5487.667443	0.550	1128365.670	ug/L	6958.099
52 Cr	112.232464	0.742	888438.735	ug/L	19943.039
55 Mn	108.731160	4.611	1351633.780	ug/L	850.041
59 Co	111.054241	0.562	983238.852	ug/L	83.334
60 Ni	107.817075	1.137	203624.005	ug/L	35.220
65 Cu	102.227404	1.156	194622.213	ug/L	106.599
68 Zn	100.162724	0.354	73247.062	ug/L	425.010
75 As	102.069713	0.661	188409.524	ug/L	15932.220
72 Ge-1			1008117.191	ug/L	1051521.414
111 Cd	99.468898	0.951	157625.762	ug/L	42.857
121 Sb	47.647276	0.521	237449.394	ug/L	87.334
135 Ba	93.765055	1.812	158614.567	ug/L	77.667
115 In-1			996252.509	ug/L	1010514.089
208 Pb	94.954808	0.239	2035616.925	ug/L	608.675
169 Tm-1			768156.138	ug/L	823249.565
50 Cr	112.366664	6.290	22412.949	ug/L	-45.711
53 Cr	118.379335	1.944	64166.802	ug/L	18388.364
61 Ni	106.528755	7.647	5283.808	ug/L	2281.500
63 Cu	103.925166	2.395	145392.693	ug/L	82.668
67 Zn	102.845461	0.843	7134.472	ug/L	820.776
66 Zn	100.329315	0.155	34262.845	ug/L	87.668
72 Ge			1008117.191	ug/L	1051521.414
108 Cd	97.294388	0.985	11335.091	ug/L	4.235
114 Cd	99.470334	0.515	367130.155	ug/L	117.318
115 In			996252.509	ug/L	1010514.089
208 207.977	94.085731	0.897	1035879.944	ug/L	317.006
207 Pb	94.363171	0.577	429006.785	ug/L	123.001
206 Pb	97.039233	1.123	570730.195	ug/L	168.668
169 Tm			768156.138	ug/L	823249.565
106 Pd	104.454691	0.419	14724.045	ug/L	5.667
83 Kr	118.518851	246.321	339.340	ug/L	328.673

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Sample ID: CCV 2

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	100.269
Be	9	
[> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.872
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.589
Pb	208	
[> Tm-1	169	93.308
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	95.872
Cd	108	
Cd	114	
[> In	115	98.589
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	93.308
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 2**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:12:56

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCB 2.015

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1191897.048	ug/L	1183872.547
6 Li-1			187669.958	ug/L	187750.026
9 Be	0.005816	86.610	0.667	ug/L	0.000
27 Al	0.079933	124.530	21014.215	ug/L	20697.465
44 Ca	0.515699	33.339	7083.867	ug/L	6958.099
52 Cr	0.051871	32.402	20407.774	ug/L	19943.039
55 Mn	0.002930	15.316	890.045	ug/L	850.041
59 Co	0.000040	3677.101	84.000	ug/L	83.334
60 Ni	-0.001068	188.244	33.198	ug/L	35.220
65 Cu	-0.002341	198.081	102.232	ug/L	106.599
68 Zn	0.010167	66.545	433.677	ug/L	425.010
75 As	0.101182	113.850	16146.801	ug/L	15932.220
72 Ge-1			1053875.692	ug/L	1051521.414
111 Cd	0.004865	101.260	51.474	ug/L	42.857
121 Sb	-0.004165	54.243	67.334	ug/L	87.334
135 Ba	0.005029	90.537	87.667	ug/L	77.667
115 In-1			1026822.750	ug/L	1010514.089
208 Pb	0.000610	179.991	626.009	ug/L	608.675
169 Tm-1			827655.708	ug/L	823249.565
50 Cr	0.048294	55.723	-35.701	ug/L	-45.711
53 Cr	0.639616	200.530	18696.489	ug/L	18388.364
61 Ni	-2.000321	52.737	2225.793	ug/L	2281.500
63 Cu	-0.009237	50.472	69.334	ug/L	82.668
67 Zn	-0.039951	3100.359	820.442	ug/L	820.776
66 Zn	0.027786	117.457	97.668	ug/L	87.668
72 Ge			1053875.692	ug/L	1051521.414
108 Cd	0.025957	77.732	7.420	ug/L	4.235
114 Cd	0.003213	92.841	131.454	ug/L	117.318
115 In			1026822.750	ug/L	1010514.089
208 207.977	0.000889	177.358	329.340	ug/L	317.006
207 Pb	0.002312	75.355	135.001	ug/L	123.001
206 Pb	-0.001228	.216.863	161.668	ug/L	168.668
169 Tm			827655.708	ug/L	823249.565
106 Pd	-0.002366	346.410	5.333	ug/L	5.667
83 Kr	-7.407156	5456.159	328.006	ug/L	328.673

Report Date/Time: Friday, December 22, 2006 11:05:10

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Sample ID: CCB 2

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	99.957
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	100.224
Cd	111	
Sb	121	
Ba	135	
> In-1	115	101.614
Pb	208	
> Tm-1	169	100.535
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	100.224
Cd	108	
Cd	114	
> In	115	101.614
207.977	208	
Pb	207	
Pb	206	
> Tm	169	100.535
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JLC05C**

Sample Description: G6L130000-212 LCS

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:16:49

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JLC05C.016

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 101

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1194384.583	ug/L	1183872.547	
6 Li-1					179420.933	ug/L	187750.026	
9 Be	173.308209	0.863			19005.618	ug/L	0.000	
27 Al	953.063719	0.154			3147400.230	ug/L	20697.465	
44 Ca	1210.022851	1.562			259389.475	ug/L	6958.099	
52 Cr	174.044924	1.591			1396197.137	ug/L	19943.039	
55 Mn	174.786995	2.149			2219241.845	ug/L	850.041	
59 Co	176.189014	0.772			1592624.059	ug/L	83.334	
60 Ni	186.618122	1.132			359824.563	ug/L	35.220	
65 Cu	182.083754	0.674			353813.283	ug/L	106.599	
68 Zn	178.499414	0.286			132951.900	ug/L	425.010	
75 As	179.924485	0.468			327236.251	ug/L	15932.220	
72 Ge-1					1029336.012	ug/L	1051521.414	
111 Cd	183.119676	0.587			276933.661	ug/L	42.857	
121 Sb	41.221909	3.882			196016.476	ug/L	87.334	
135 Ba	180.216270	0.867			290853.704	ug/L	77.667	
115 In-1					950780.599	ug/L	1010514.089	
208 Pb	180.928941	0.968			3909581.080	ug/L	608.675	
169 Tm-1					774422.785	ug/L	823249.565	
50 Cr	171.900118	5.683			35033.089	ug/L	-45.711	
53 Cr	141.004547	4.494			74604.787	ug/L	18388.364	
61 Ni	183.383820	3.264			7670.069	ug/L	2281.500	
63 Cu	182.370119	0.920			260392.343	ug/L	82.668	
67 Zn	173.798259	0.557			11755.070	ug/L	820.776	
66 Zn	171.301360	0.865			59667.588	ug/L	87.668	
72 Ge					1029336.012	ug/L	1051521.414	
108 Cd	177.299469	0.112			19711.335	ug/L	4.235	
114 Cd	178.133412	0.768			627424.078	ug/L	117.318	
115 In					950780.599	ug/L	1010514.089	
208 207.977	180.631674	0.612			2004711.941	ug/L	317.006	
207 Pb	191.781430	1.489			878781.678	ug/L	123.001	
206 Pb	173.096220	1.220			1026087.461	ug/L	168.668	
169 Tm					774422.785	ug/L	823249.565	
106 Pd	189.655600	1.028			26729.434	ug/L	5.667	
83 Kr	-151.852308	81.479			315.006	ug/L	328.673	

Report Date/Time: Friday, December 22, 2006 11:08:29

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Sample ID: JLC05C

G6L050146

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	95.564
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	97.890
Cd	111	
Sb	121	
Ba	135	
> In-1	115	94.089
Pb	208	
> Tm-1	169	94.069
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	97.890
Cd	108	
Cd	114	
> In	115	94.089
207.977	208	
Pb	207	
Pb	206	
> Tm	169	94.069
Pd	106	
Kr	83	

Report Date/Time: Friday, December 22, 2006 11:08:29

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Sample ID: JLC05C

G6L050146

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SOP No. SAC-MT-0001

BJones

**Sample ID: JLC05L**

Sample Description: G6L130000-212 LCSD

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:20:39

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JLC05L.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 102

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1181107.698	ug/L	1183872.547
6 Li-1			178782.939	ug/L	187750.026
9 Be	177.519942	0.659	19399.151	ug/L	0.000
27 Al	986.899599	1.474	3105247.884	ug/L	20697.465
44 Ca	1275.348978	1.144	260171.144	ug/L	6958.099
52 Cr	194.311143	1.364	1483204.459	ug/L	19943.039
55 Mn	190.501869	2.148	2304819.633	ug/L	850.041
59 Co	191.331343	1.442	1648271.827	ug/L	83.334
60 Ni	196.528194	0.973	361095.153	ug/L	35.220
65 Cu	188.532761	0.843	349143.591	ug/L	106.599
68 Zn	181.812553	0.759	129046.983	ug/L	425.010
75 As	185.964629	0.866	321822.688	ug/L	15932.220
72 Ge-1			980986.630	ug/L	1051521.414
111 Cd	189.408486	0.443	290357.773	ug/L	42.857
121 Sb	42.751604	2.550	206088.568	ug/L	87.334
135 Ba	178.979284	0.708	292811.045	ug/L	77.667
115 In-1			963777.193	ug/L	1010514.089
208 Pb	182.715470	1.033	3841163.702	ug/L	608.675
169 Tm-1			753420.579	ug/L	823249.565
50 Cr	185.249737	7.890	35960.801	ug/L	-45.711
53 Cr	160.843136	5.911	78664.964	ug/L	18388.364
61 Ni	186.942586	2.829	7411.447	ug/L	2281.500
63 Cu	187.329102	3.355	254871.647	ug/L	82.668
67 Zn	176.469961	2.640	11362.626	ug/L	820.776
66 Zn	176.370283	0.155	58549.069	ug/L	87.668
72 Ge			980986.630	ug/L	1051521.414
108 Cd	184.301531	0.662	20770.005	ug/L	4.235
114 Cd	184.651797	0.449	659251.834	ug/L	117.318
115 In			963777.193	ug/L	1010514.089
208 207.977	182.320841	1.078	1968658.476	ug/L	317.006
207 Pb	192.822220	1.692	859593.982	ug/L	123.001
206 Pb	175.641507	1.358	1012911.244	ug/L	168.668
169 Tm			753420.579	ug/L	823249.565
106 Pd	195.322263	1.247	27527.905	ug/L	5.667
83 Kr	-77.778109	222.386	321.673	ug/L	328.673

Report Date/Time: Friday, December 22, 2006 11:08:31

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Sample ID: JLC05L

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	95.224
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	93.292
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	95.375
Pb	208	
[> Tm-1	169	91.518
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	93.292
Cd	108	
Cd	114	
[> In	115	95.375
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	91.518
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:24:32

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\Rinse.018

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1164902.597	ug/L	1183872.547
6 Li-1			186536.077	ug/L	187750.026
9 Be	0.000000		0.000	ug/L	0.000
27 Al	0.405322	20.425	21281.184	ug/L	20697.465
44 Ca	1.584914	35.736	7039.831	ug/L	6958.099
52 Cr	0.217803	26.950	20940.703	ug/L	19943.039
55 Mn	0.008063	46.619	921.049	ug/L	850.041
59 Co	0.001001	110.889	89.334	ug/L	83.334
60 Ni	0.003011	49.660	39.707	ug/L	35.220
65 Cu	0.012476	31.974	126.749	ug/L	106.599
68 Zn	-0.001896	2502.785	408.676	ug/L	425.010
75 As	-0.147744	150.013	15119.961	ug/L	15932.220
72 Ge-1			1014585.626	ug/L	1051521.414
111 Cd	0.003658	125.839	49.202	ug/L	42.857
121 Sb	0.613886	13.048	3219.599	ug/L	87.334
135 Ba	0.001934	227.244	81.667	ug/L	77.667
115 In-1			1019461.614	ug/L	1010514.089
208 Pb	0.005431	30.229	707.345	ug/L	608.675
169 Tm-1			793759.549	ug/L	823249.565
50 Cr	-0.019645	231.173	-48.050	ug/L	-45.711
53 Cr	0.463265	407.305	17926.332	ug/L	18388.364
61 Ni	-4.380542	126.529	2073.357	ug/L	2281.500
63 Cu	0.007739	148.444	90.668	ug/L	82.668
67 Zn	-0.288338	365.641	774.096	ug/L	820.776
66 Zn	-0.010449	318.329	81.001	ug/L	87.668
72 Ge			1014585.626	ug/L	1051521.414
108 Cd	0.035884	130.208	8.568	ug/L	4.235
114 Cd	0.008368	21.920	149.918	ug/L	117.318
115 In			1019461.614	ug/L	1010514.089
208 207.977	0.006373	45.799	378.342	ug/L	317.006
207 Pb	0.005327	71.533	143.668	ug/L	123.001
206 Pb	0.003748	56.029	185.335	ug/L	168.668
169 Tm			793759.549	ug/L	823249.565
106 Pd	0.016559	113.389	8.000	ug/L	5.667
83 Kr	-262.963261	95.981	305.005	ug/L	328.673

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Sample ID: Rinse

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	99.353
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Ge-1	72	96.487
Cd	111	
Sb	121	
Ba	135	
In-1	115	100.885
Pb	208	
Tm-1	169	96.418
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Ge	72	96.487
Cd	108	
Cd	114	
In	115	100.885
207.977	208	
Pb	207	
Pb	206	
Tm	169	96.418
Pd	106	
Kr	83	

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Sample ID: Rinse

G6L050146

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SOP No. SAC-MT-0001

BJones

**Sample ID: JLC05B**

Sample Description: G6L130000-212 BLK

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:28:29

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JLC05B.019

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 20

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1145505.233	ug/L	1183872.547
6 Li-1				182795.377	ug/L	187750.026
9 Be	0.002981	173.205		0.333	ug/L	0.000
27 Al	-0.814571	4.059		18106.383	ug/L	20697.465
44 Ca	87.179702	0.666		25743.483	ug/L	6958.099
52 Cr	-0.208390	38.559		18402.687	ug/L	19943.039
55 Mn	0.633791	2.311		9136.101	ug/L	850.041
59 Co	0.001183	84.904		95.001	ug/L	83.334
60 Ni	0.098286	10.182		230.466	ug/L	35.220
65 Cu	0.427314	1.950		961.970	ug/L	106.599
68 Zn	4.257614	3.434		3683.109	ug/L	425.010
75 As	-0.072970	84.254		15924.794	ug/L	15932.220
72 Ge-1				1059644.027	ug/L	1051521.414
111 Cd	-0.001163	455.834		40.708	ug/L	42.857
121 Sb	0.228631	6.446		1235.754	ug/L	87.334
135 Ba	0.125032	21.551		290.338	ug/L	77.667
115 In-1				1005494.108	ug/L	1010514.089
208 Pb	0.090483	0.866		2753.167	ug/L	608.675
169 Tm-1				843543.815	ug/L	823249.565
50 Cr	0.455081	12.072		49.451	ug/L	-45.711
53 Cr	-21.143007	6.701		9798.049	ug/L	18388.364
61 Ni	-7.296744	30.052		2076.023	ug/L	2281.500
63 Cu	0.462685	1.420		763.093	ug/L	82.668
67 Zn	-0.271600	288.234		809.772	ug/L	820.776
66 Zn	4.462867	1.342		1686.455	ug/L	87.668
72 Ge				1059644.027	ug/L	1051521.414
108 Cd	0.004775	683.748		4.753	ug/L	4.235
114 Cd	-0.000980	295.768		113.098	ug/L	117.318
115 In				1005494.108	ug/L	1010514.089
208 207.977	0.091022	2.431		1425.116	ug/L	317.006
207 Pb	0.092908	3.976		589.687	ug/L	123.001
206 Pb	0.087601	3.805		738.364	ug/L	168.668
169 Tm				843543.815	ug/L	823249.565
106 Pd	0.021291	69.389		8.667	ug/L	5.667
83 Kr	37.036849	187.351		332.006	ug/L	328.673

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Sample ID: JLC05B

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	97.361
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Ge-1	72	100.772
Cd	111	
Sb	121	
Ba	135	
In-1	115	99.503
Pb	208	
Tm-1	169	102.465
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Ge	72	100.772
Cd	108	
Cd	114	
In	115	99.503
207.977	208	
Pb	207	
Pb	206	
Tm	169	102.465
Pd	106	
Kr	83	

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Sample ID: JLC05B

**Sample ID: JKRXA**

Sample Description: G6L050146-1

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:32:22

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JKRXA.020

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1227100.062	ug/L	1183872.547
6 Li-1			180065.812	ug/L	187750.026
9 Be	0.012134	43.879	1.333	ug/L	0.000
27 Al	160.660136	1.659	541918.137	ug/L	20697.465
44 Ca	425.582815	0.497	94682.186	ug/L	6958.099
52 Cr	1.782130	6.392	33279.524	ug/L	19943.039
55 Mn	5.779076	2.415	73431.257	ug/L	850.041
59 Co	0.241192	3.759	2238.953	ug/L	83.334
60 Ni	0.635895	3.977	1247.659	ug/L	35.220
65 Cu	11.108374	1.212	21466.853	ug/L	106.599
68 Zn	6.239779	1.820	4998.427	ug/L	425.010
75 As	0.163619	170.088	15719.668	ug/L	15932.220
72 Ge-1			1019050.905	ug/L	1051521.414
111 Cd	0.096508	20.696	198.722	ug/L	42.857
121 Sb	0.355770	1.653	1892.205	ug/L	87.334
135 Ba	2.648278	2.417	4636.895	ug/L	77.667
115 In-1			1014347.428	ug/L	1010514.089
208 Pb	1.645266	1.276	35851.909	ug/L	608.675
169 Tm-1			768702.448	ug/L	823249.565
50 Cr	2.333214	16.027	426.731	ug/L	-45.711
53 Cr	-16.183458	19.812	11387.538	ug/L	18388.364
61 Ni	-10.577319	21.024	1900.578	ug/L	2281.500
63 Cu	11.602047	2.310	16473.316	ug/L	82.668
67 Zn	2.130469	63.415	928.139	ug/L	820.776
66 Zn	5.936712	1.100	2129.392	ug/L	87.668
72 Ge			1019050.905	ug/L	1051521.414
108 Cd	1.520767	5.765	184.593	ug/L	4.235
114 Cd	0.042786	29.962	278.505	ug/L	117.318
115 In			1014347.428	ug/L	1010514.089
208 207.977	1.707980	1.588	19109.180	ug/L	317.006
207 Pb	1.663464	3.016	7679.370	ug/L	123.001
206 Pb	1.513787	2.059	9063.359	ug/L	168.668
169 Tm			768702.448	ug/L	823249.565
106 Pd	3.311972	7.638	472.346	ug/L	5.667
83 Kr	48.148163	488.448	333.006	ug/L	328.673

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Sample ID: JKRXA

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	95.907
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Ge-1	72	96.912
Cd	111	
Sb	121	
Ba	135	
In-1	115	100.379
Pb	208	
Tm-1	169	93.374
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Ge	72	96.912
Cd	108	
Cd	114	
In	115	100.379
207.977	208	
Pb	207	
Pb	206	
Tm	169	93.374
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXAP5**

Sample Description: G6L050146-1 5X

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:36:13

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JKRXAP5.021

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 28

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1253117.739	ug/L	1183872.547
6 Li-1			192347.266	ug/L	187750.026
9 Be	0.011313	42.331	1.333	ug/L	0.000
27 Al	34.426586	2.807	135251.448	ug/L	20697.465
44 Ca	89.450197	1.268	25872.528	ug/L	6958.099
52 Cr	0.661060	20.290	25125.382	ug/L	19943.039
55 Mn	1.156450	2.709	15745.490	ug/L	850.041
59 Co	0.054101	1.358	579.353	ug/L	83.334
60 Ni	0.249709	7.782	523.599	ug/L	35.220
65 Cu	2.168654	2.255	4383.222	ug/L	106.599
68 Zn	1.396795	3.250	1475.458	ug/L	425.010
75 As	-0.316472	50.088	15278.115	ug/L	15932.220
72 Ge-1			1045194.662	ug/L	1051521.414
111 Cd	0.025088	18.891	81.408	ug/L	42.857
121 Sb	0.108805	4.365	624.356	ug/L	87.334
135 Ba	0.545103	2.459	991.723	ug/L	77.667
115 In-1			989960.217	ug/L	1010514.089
208 Pb	0.341688	1.467	7750.345	ug/L	608.675
169 Tm-1			754515.740	ug/L	823249.565
50 Cr	0.347127	27.868	26.401	ug/L	-45.711
53 Cr	-4.000902	66.108	16640.611	ug/L	18388.364
61 Ni	-16.523220	23.939	1769.502	ug/L	2281.500
63 Cu	2.259961	5.717	3356.805	ug/L	82.668
67 Zn	-0.110832	1707.946	808.106	ug/L	820.776
66 Zn	1.467065	9.210	605.059	ug/L	87.668
72 Ge			1045194.662	ug/L	1051521.414
108 Cd	0.328985	16.085	42.274	ug/L	4.235
114 Cd	0.022850	13.172	198.632	ug/L	117.318
115 In			989960.217	ug/L	1010514.089
208 207.977	0.353349	1.437	4110.632	ug/L	317.006
207 Pb	0.358664	1.497	1713.835	ug/L	123.001
206 Pb	0.306731	4.832	1925.879	ug/L	168.668
169 Tm			754515.740	ug/L	823249.565
106 Pd	0.650552	6.203	97.334	ug/L	5.667
83 Kr	-203.703900	152.760	310.339	ug/L	328.673

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Sample ID: JKRXAP5

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
[> Li-1	6	102.449
Be	9	
[> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	99.398
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.966
Pb	208	
[> Tm-1	169	91.651
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	99.398
Cd	108	
Cd	114	
[> In	115	97.966
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	91.651
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXAZ**

Sample Description: G6L050146-1 PS

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:40:05

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JKRXAZ.022

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 29

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1192367.304	ug/L	1183872.547
6 Li-1			184764.054	ug/L	187750.026
9 Be	190.408191	0.637	21501.065	ug/L	0.000
27 Al	1176.775325	1.530	3805088.769	ug/L	20697.465
44 Ca	1628.776942	1.858	339917.689	ug/L	6958.099
52 Cr	208.721642	3.970	1636561.705	ug/L	19943.039
55 Mn	215.889039	1.919	2686544.928	ug/L	850.041
59 Co	215.573129	2.448	1909913.967	ug/L	83.334
60 Ni	222.344181	1.651	420277.669	ug/L	35.220
65 Cu	226.855763	0.674	432220.712	ug/L	106.599
68 Zn	207.627696	1.416	151546.214	ug/L	425.010
75 As	197.934481	2.778	351273.987	ug/L	15932.220
72 Ge-1			1009412.642	ug/L	1051521.414
111 Cd	195.325932	0.747	312776.630	ug/L	42.857
121 Sb	45.938036	2.536	231341.609	ug/L	87.334
135 Ba	203.658048	1.307	348062.486	ug/L	77.667
115 In-1			1006778.850	ug/L	1010514.089
208 Pb	184.578250	0.908	4172138.663	ug/L	608.675
169 Tm-1			810165.662	ug/L	823249.565
50 Cr	190.692664	3.427	38083.011	ug/L	-45.711
53 Cr	175.366663	1.694	86651.450	ug/L	18388.364
61 Ni	229.631219	0.915	8868.244	ug/L	2281.500
63 Cu	224.768993	1.068	314646.924	ug/L	82.668
67 Zn	200.185362	0.530	13159.341	ug/L	820.776
66 Zn	204.782874	1.721	69910.482	ug/L	87.668
72 Ge			1009412.642	ug/L	1051521.414
108 Cd	189.407037	1.592	22296.902	ug/L	4.235
114 Cd	193.113551	0.821	720195.082	ug/L	117.318
115 In			1006778.850	ug/L	1010514.089
208 207.977	182.705473	1.371	2120856.180	ug/L	317.006
207 Pb	193.291346	0.680	926627.751	ug/L	123.001
206 Pb	181.348986	0.444	1124654.732	ug/L	168.668
169 Tm			810165.662	ug/L	823249.565
106 Pd	210.898736	1.386	29722.737	ug/L	5.667
83 Kr	266.667455	72.449	352.674	ug/L	328.673

Report Date/Time: Friday, December 22, 2006 11:08:44

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Sample ID: JKRXAZ

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
> Li-1	6	98.410
Be	9	
> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	95.995
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.630
Pb	208	
> Tm-1	169	98.411
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	95.995
Cd	108	
Cd	114	
> In	115	99.630
207.977	208	
Pb	207	
Pb	206	
> Tm	169	98.411
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXC**

Sample Description: G6L050146-2

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:43:57

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JKRXC.023

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 30

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1194860.806	ug/L	1183872.547
6 Li-1			186021.378	ug/L	187750.026
9 Be	0.014571	91.344	1.667	ug/L	0.000
27 Al	177.827566	0.972	627080.623	ug/L	20697.465
44 Ca	484.775405	0.775	112167.468	ug/L	6958.099
52 Cr	1.501563	5.545	32614.034	ug/L	19943.039
55 Mn	6.157975	2.405	82027.445	ug/L	850.041
59 Co	0.309877	2.733	2993.512	ug/L	83.334
60 Ni	0.645732	2.307	1328.570	ug/L	35.220
65 Cu	9.959537	1.745	20201.986	ug/L	106.599
68 Zn	9.254886	1.300	7568.939	ug/L	425.010
75 As	-0.234211	92.468	15775.540	ug/L	15932.220
72 Ge-1			1069091.214	ug/L	1051521.414
111 Cd	0.103041	16.839	199.270	ug/L	42.857
121 Sb	0.964205	9.637	4740.959	ug/L	87.334
135 Ba	3.787364	8.767	6280.931	ug/L	77.667
115 In-1			965778.369	ug/L	1010514.089
208 Pb	2.591276	0.752	58646.923	ug/L	608.675
169 Tm-1			803002.254	ug/L	823249.565
50 Cr	1.640225	28.738	301.005	ug/L	-45.711
53 Cr	-19.646677	10.301	10510.738	ug/L	18388.364
61 Ni	-15.761127	22.615	1833.872	ug/L	2281.500
63 Cu	10.132327	1.715	15103.078	ug/L	82.668
67 Zn	5.172646	21.067	1173.221	ug/L	820.776
66 Zn	8.997248	2.176	3339.450	ug/L	87.668
72 Ge			1069091.214	ug/L	1051521.414
108 Cd	1.388093	7.004	160.752	ug/L	4.235
114 Cd	0.061111	5.955	330.695	ug/L	117.318
115 In			965778.369	ug/L	1010514.089
208 207.977	2.688085	1.689	31239.007	ug/L	317.006
207 Pb	2.629774	1.586	12614.087	ug/L	123.001
206 Pb	2.380271	0.429	14793.829	ug/L	168.668
169 Tm			803002.254	ug/L	823249.565
106 Pd	2.845920	7.615	406.676	ug/L	5.667
83 Kr	-55.555478	671.220	323.673	ug/L	328.673

Report Date/Time: Friday, December 22, 2006 11:08:46

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Sample ID: JKRXC

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	99.079
Be	9	
> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	101.671
Cd	111	
Sb	121	
Ba	135	
> In-1	115	95.573
Pb	208	
> Tm-1	169	97.541
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	101.671
Cd	108	
Cd	114	
> In	115	95.573
207.977	208	
Pb	207	
Pb	206	
> Tm	169	97.541
Pd	106	
Kr	83	

**Sample ID: JKRXD**

Sample Description: G6L050146-3

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:47:49

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JKRXD.024

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 31

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1243067.994	ug/L	1183872.547
6 Li-1			188084.173	ug/L	187750.026
9 Be	0.023305	57.928	2.667	ug/L	0.000
27 Al	350.569856	0.945	1179767.207	ug/L	20697.465
44 Ca	615.263512	1.355	136288.894	ug/L	6958.099
52 Cr	2.170938	1.863	36980.983	ug/L	19943.039
55 Mn	12.958023	1.372	166585.926	ug/L	850.041
59 Co	0.361794	2.198	3377.985	ug/L	83.334
60 Ni	0.824601	2.070	1637.201	ug/L	35.220
65 Cu	16.216776	0.590	31857.736	ug/L	106.599
68 Zn	9.166172	0.431	7279.027	ug/L	425.010
75 As	0.348690	45.856	16326.548	ug/L	15932.220
72 Ge-1			1037488.635	ug/L	1051521.414
111 Cd	0.100475	19.658	212.627	ug/L	42.857
121 Sb	0.415411	2.040	2275.629	ug/L	87.334
135 Ba	5.148506	2.613	9270.577	ug/L	77.667
115 In-1			1051764.849	ug/L	1010514.089
208 Pb	1.568883	1.457	36289.409	ug/L	608.675
169 Tm-1			815480.423	ug/L	823249.565
50 Cr	4.092920	6.011	796.648	ug/L	-45.711
53 Cr	-14.901376	15.683	12116.547	ug/L	18388.364
61 Ni	-8.744150	9.137	1989.633	ug/L	2281.500
63 Cu	16.710149	0.807	24120.065	ug/L	82.668
67 Zn	5.476684	19.637	1157.882	ug/L	820.776
66 Zn	8.750384	0.487	3154.258	ug/L	87.668
72 Ge			1037488.635	ug/L	1051521.414
108 Cd	1.578811	8.271	198.498	ug/L	4.235
114 Cd	0.057028	5.403	344.285	ug/L	117.318
115 In			1051764.849	ug/L	1010514.089
208 Pb	207.977	1.613410	19161.292	ug/L	317.006
207 Pb	1.585738	0.604	7772.118	ug/L	123.001
206 Pb	1.472492	1.460	9356.000	ug/L	168.668
169 Tm			815480.423	ug/L	823249.565
106 Pd	3.626619	5.481	516.682	ug/L	5.667
83 Kr	-151.852341	50.694	315.006	ug/L	328.673

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	100.178
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.665
Cd	111	
Sb	121	
Ba	135	
> In-1	115	104.082
Pb	208	
> Tm-1	169	99.056
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	98.665
Cd	108	
Cd	114	
> In	115	104.082
207.977	208	
Pb	207	
Pb	206	
> Tm	169	99.056
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

B.Jones

**Sample ID: JKRXE**

Sample Description: G6L050146-4

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 18:51:42

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\JKRXE.025

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 32

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1311466.718	ug/L	1183872.547
6 Li-1				193746.964	ug/L	187750.026
9 Be	0.022556	57.748		2.667	ug/L	0.000
27 Al	604.405560	1.051		2094758.675	ug/L	20697.465
44 Ca	1052.157591	1.528		236743.547	ug/L	6958.099
52 Cr	2.496599	5.453		41058.814	ug/L	19943.039
55 Mn	20.440298	1.418		272108.284	ug/L	850.041
59 Co	0.487576	2.389		4693.259	ug/L	83.334
60 Ni	1.052100	0.914		2157.029	ug/L	35.220
65 Cu	58.724697	1.875		119387.379	ug/L	106.599
68 Zn	11.899509	2.439		9672.344	ug/L	425.010
75 As	0.232884	98.055		16728.136	ug/L	15932.220
72 Ge-1				1076371.303	ug/L	1051521.414
111 Cd	0.124636	15.715		238.742	ug/L	42.857
121 Sb	0.358296	3.728		1863.865	ug/L	87.334
135 Ba	8.152887	2.502		13810.224	ug/L	77.667
115 In-1				992835.059	ug/L	1010514.089
208 Pb	2.078548	2.165		46376.836	ug/L	608.675
169 Tm-1				789647.350	ug/L	823249.565
50 Cr	7.055217	26.594		1457.431	ug/L	-45.711
53 Cr	-15.608245	18.719		12271.536	ug/L	18388.364
61 Ni	-17.976247	8.776		1778.173	ug/L	2281.500
63 Cu	58.068356	1.128		86753.261	ug/L	82.668
67 Zn	6.715169	22.539		1282.598	ug/L	820.776
66 Zn	11.529518	1.408		4283.267	ug/L	87.668
72 Ge				1076371.303	ug/L	1051521.414
108 Cd	0.582572	18.127		71.892	ug/L	4.235
114 Cd	0.075081	8.672		391.557	ug/L	117.318
115 In				992835.059	ug/L	1010514.089
208 207.977	2.165234	1.997		24804.787	ug/L	317.006
207 Pb	2.094964	2.405		9905.940	ug/L	123.001
206 Pb	1.903563	2.845		11666.109	ug/L	168.668
169 Tm				789647.350	ug/L	823249.565
106 Pd	2.124373	12.266		305.005	ug/L	5.667
83 Kr	-166.667123	80.369		313.672	ug/L	328.673

Report Date/Time: Friday, December 22, 2006 11:08:51

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Sample ID: JKRXE

G6L050146

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	103.194
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	102.363
Cd	111	
Sb	121	
Ba	135	
> In-1	115	98.250
Pb	208	
> Tm-1	169	95.918
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	102.363
Cd	108	
Cd	114	
> In	115	98.250
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.918
Pd	106	
Kr	83	

BJones

**Sample ID: CCV 3**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:55:36

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCV 3.026

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1278436.075	ug/L	1183872.547
6 Li-1			221329.914	ug/L	187750.026
9 Be	100.305259	1.281	13572.193	ug/L	0.000
27 Al	5489.711169	1.542	19634680.389	ug/L	20697.465
44 Ca	5318.277953	0.968	1215923.719	ug/L	6958.099
52 Cr	97.266255	0.612	858716.211	ug/L	19943.039
55 Mn	96.017521	1.272	1327461.613	ug/L	850.041
59 Co	96.423917	2.715	948716.871	ug/L	83.334
60 Ni	96.189171	1.814	201875.128	ug/L	35.220
65 Cu	97.528138	1.800	206337.814	ug/L	106.599
68 Zn	99.586028	0.818	80944.021	ug/L	425.010
75 As	100.181062	1.194	205855.641	ug/L	15932.220
72 Ge-1			1120604.167	ug/L	1051521.414
111 Cd	101.379347	0.714	152759.151	ug/L	42.857
121 Sb	50.129460	0.454	237522.666	ug/L	87.334
135 Ba	97.850276	0.766	157374.347	ug/L	77.667
115 In-1			947234.535	ug/L	1010514.089
208 Pb	98.407110	1.118	2190033.410	ug/L	608.675
169 Tm-1			797483.140	ug/L	823249.565
50 Cr	94.564887	7.023	20954.320	ug/L	-45.711
53 Cr	97.644240	3.544	62254.927	ug/L	18388.364
61 Ni	87.669852	0.699	5261.760	ug/L	2281.500
63 Cu	97.958732	1.838	152275.708	ug/L	82.668
67 Zn	100.620849	0.721	7777.669	ug/L	820.776
66 Zn	96.355858	1.700	36575.127	ug/L	87.668
72 Ge			1120604.167	ug/L	1051521.414
108 Cd	99.143575	1.601	10983.105	ug/L	4.235
114 Cd	99.723593	0.317	349969.223	ug/L	117.318
115 In			947234.535	ug/L	1010514.089
208 207.977	98.967766	1.315	1131205.874	ug/L	317.006
207 Pb	97.809749	1.123	461608.519	ug/L	123.001
206 Pb	97.819232	0.758	597219.017	ug/L	168.668
169 Tm			797483.140	ug/L	823249.565
106 Pd	104.793576	2.258	14771.796	ug/L	5.667
83 Kr	329.630714	49.693	358.341	ug/L	328.673

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Sample ID: CCV 3

## Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
--------------	--------------------

Sc	45
[> Li-1	6
Be	9
[> Al	27
Ca	44
Cr	52
Mn	55
Co	59
Ni	60
Cu	65
Zn	68
As	75
[> Ge-1	72
106.570	
[> Cd	111
Sb	121
Ba	135
[> In-1	115
93.738	
[> Pb	208
[> Tm-1	169
96.870	
Cr	50
Cr	53
Ni	61
Cu	63
Zn	67
Zn	66
[> Ge	72
106.570	
[> Cd	108
Cd	114
[> In	115
93.738	
207.977	208
Pb	207
Pb	206
[> Tm	169
96.870	
Pd	106
Kr	83

**Sample ID: CCB 3**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 18:59:31

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCB 3.027

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1253022.845	ug/L	1183872.547
6 Li-1			201897.498	ug/L	187750.026
9 Be	0.000000		0.000	ug/L	0.000
27 Al	0.375724	35.301	23065.046	ug/L	20697.465
44 Ca	2.477566	21.920	7863.199	ug/L	6958.099
52 Cr	0.168283	22.143	22375.916	ug/L	19943.039
55 Mn	0.004237	35.326	950.385	ug/L	850.041
59 Co	0.003886	51.148	125.334	ug/L	83.334
60 Ni	0.001117	125.969	39.283	ug/L	35.220
65 Cu	0.001895	105.121	115.940	ug/L	106.599
68 Zn	-0.030856	119.571	422.010	ug/L	425.010
75 As	0.124571	136.103	16964.735	ug/L	15932.220
72 Ge-1			1104440.824	ug/L	1051521.414
111 Cd	0.003956	172.174	50.329	ug/L	42.857
121 Sb	0.028778	9.072	238.003	ug/L	87.334
135 Ba	0.006259	162.140	90.334	ug/L	77.667
115 In-1			1033583.020	ug/L	1010514.089
208 Pb	0.002033	5.876	679.010	ug/L	608.675
169 Tm-1			852936.080	ug/L	823249.565
50 Cr	-0.017093	754.912	-51.745	ug/L	-45.711
53 Cr	-1.147431	60.187	18821.535	ug/L	18388.364
61 Ni	-6.193478	22.462	2199.107	ug/L	2281.500
63 Cu	-0.003383	73.271	81.668	ug/L	82.668
67 Zn	1.020932	74.504	931.473	ug/L	820.776
66 Zn	-0.016942	212.654	85.668	ug/L	87.668
72 Ge			1104440.824	ug/L	1051521.414
108 Cd	0.017943	353.731	6.507	ug/L	4.235
114 Cd	0.002581	164.323	129.819	ug/L	117.318
115 In			1033583.020	ug/L	1010514.089
208 207.977	0.001791	13.140	350.340	ug/L	317.006
207 Pb	0.004347	38.347	149.335	ug/L	123.001
206 Pb	0.000696	146.905	179.335	ug/L	168.668
169 Tm			852936.080	ug/L	823249.565
106 Pd	94479453815048256.000		5.667	ug/L	5.667
83 Kr	351.853164	67.459	360.341	ug/L	328.673

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Sample ID: CCB 3

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	107.535
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	105.033
Cd	111	
Sb	121	
Ba	135	
> In-1	115	102.283
Pb	208	
> Tm-1	169	103.606
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	105.033
Cd	108	
Cd	114	
> In	115	102.283
207.977	208	
Pb	207	
Pb	206	
> Tm	169	103.606
Pd	106	
Kr	83	

Report Date/Time: Friday, December 22, 2006 11:08:56

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Sample ID: CCB 3

G6L050146

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SOP No. SAC-MT-0001

BJones

**Sample ID: FB**

Sample Description: G6L130000-212 BLK CHK

Batch ID: 6347212

Sample Date/Time: Thursday, December 21, 2006 19:03:27

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\FB.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 19

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1263205.107	ug/L	1183872.547
6 Li-1			196646.518	ug/L	187750.026
9 Be	0.005574	173.205	0.667	ug/L	0.000
27 Al	11.721572	1.405	65574.137	ug/L	20697.465
44 Ca	241.248725	1.362	63837.043	ug/L	6958.099
52 Cr	1.205483	3.259	32448.057	ug/L	19943.039
55 Mn	1.348947	1.127	20047.609	ug/L	850.041
59 Co	0.063958	1.735	736.698	ug/L	83.334
60 Ni	0.662738	2.450	1465.294	ug/L	35.220
65 Cu	0.788650	1.688	1827.496	ug/L	106.599
68 Zn	3.345999	1.407	3238.933	ug/L	425.010
75 As	-0.421931	36.470	16599.961	ug/L	15932.220
72 Ge-1			1149492.572	ug/L	1051521.414
111 Cd	0.012116	83.883	61.855	ug/L	42.857
121 Sb	0.054301	8.388	358.674	ug/L	87.334
135 Ba	0.743473	1.140	1341.103	ug/L	77.667
115 In-1			1001815.308	ug/L	1010514.089
208 Pb	0.139452	0.838	3998.355	ug/L	608.675
169 Tm-1			863550.069	ug/L	823249.565
50 Cr	1.139822	21.369	209.520	ug/L	-45.711
53 Cr	-20.301309	7.127	11004.055	ug/L	18388.364
61 Ni	-13.923149	14.332	2032.995	ug/L	2281.500
63 Cu	0.838007	2.472	1425.992	ug/L	82.668
67 Zn	-1.570401	45.464	786.766	ug/L	820.776
66 Zn	3.243360	2.398	1355.627	ug/L	87.668
72 Ge			1149492.572	ug/L	1051521.414
108 Cd	0.274961	3.200	36.397	ug/L	4.235
114 Cd	0.001208	210.796	120.784	ug/L	117.318
115 In			1001815.308	ug/L	1010514.089
208 207.977	0.142501	2.431	2095.584	ug/L	317.006
207 Pb	0.150171	3.732	896.379	ug/L	123.001
206 Pb	0.125459	4.649	1006.391	ug/L	168.668
169 Tm			863550.069	ug/L	823249.565
106 Pd	0.626895	15.970	94.001	ug/L	5.667
83 Kr	155.556045	195.006	342.673	ug/L	328.673

Report Date/Time: Friday, December 22, 2006 11:11:31

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Sample ID: FB

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	104.738
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	109.317
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.139
Pb	208	
> Tm-1	169	104.895
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	109.317
Cd	108	
Cd	114	
> In	115	99.139
207.977	208	
Pb	207	
Pb	206	
> Tm	169	104.895
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: LLSTD1**

Sample Description: LL STD @10X

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:07:21

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\LLSTD1.029

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 11

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1335962.892	ug/L	1183872.547
6 Li-1				205942.778	ug/L	187750.026
9 Be	1.072960	10.805		135.001	ug/L	0.000
27 Al	67.844081	1.284		262717.410	ug/L	20697.465
44 Ca	65.375044	3.597		22126.947	ug/L	6958.099
52 Cr	1.305192	8.552		32280.113	ug/L	19943.039
55 Mn	1.051930	1.643		15341.438	ug/L	850.041
59 Co	1.015102	1.814		10013.393	ug/L	83.334
60 Ni	1.001601	3.232		2125.678	ug/L	35.220
65 Cu	1.018922	2.317		2253.942	ug/L	106.599
68 Zn	5.398896	3.178		4785.642	ug/L	425.010
>75 As	0.354764	95.708		17532.780	ug/L	15932.220
72 Ge-1				1113585.464	ug/L	1051521.414
111 Cd	1.026925	2.351		1656.539	ug/L	42.857
121 Sb	0.354137	5.292		1835.860	ug/L	87.334
135 Ba	0.972923	3.354		1708.167	ug/L	77.667
115 In-1				988688.897	ug/L	1010514.089
208 Pb	1.029989	2.663		23627.794	ug/L	608.675
169 Tm-1				801739.966	ug/L	823249.565
50 Cr	1.513574	8.575		285.651	ug/L	-45.711
53 Cr	-3.379257	71.367		17998.088	ug/L	18388.364
61 Ni	-16.675816	18.082		1881.568	ug/L	2281.500
63 Cu	1.044901	1.351		1700.796	ug/L	82.668
67 Zn	5.378991	24.037		1235.245	ug/L	820.776
66 Zn	5.491473	3.752		2158.746	ug/L	87.668
72 Ge				1113585.464	ug/L	1051521.414
108 Cd	0.908659	5.315		109.174	ug/L	4.235
114 Cd	1.047691	2.366		3950.390	ug/L	117.318
115 In				988688.897	ug/L	1010514.089
208 207.977	1.053836	3.157		12413.135	ug/L	317.006
207 Pb	0.995882	1.936		4843.340	ug/L	123.001
206 Pb	1.011710	2.368		6371.319	ug/L	168.668
169 Tm				801739.966	ug/L	823249.565
106 Pd	1.111857	10.876		162.335	ug/L	5.667
83 Kr	44.444282	184.279		332.673	ug/L	328.673

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	109.690
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	105.902
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.840
Pb	208	
[> Tm-1	169	97.387
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	105.902
Cd	108	
Cd	114	
[> In	115	97.840
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	97.387
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: LLSTD2**

Sample Description: LL STD @5X

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:11:13

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\LLSTD2.030

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 12

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1343020.464	ug/L	1183872.547
6 Li-1			206418.419	ug/L	187750.026
9 Be	2.200391	6.484	277.671	ug/L	0.000
27 Al	131.868781	0.354	498067.501	ug/L	20697.465
44 Ca	121.520345	0.442	35380.724	ug/L	6958.099
52 Cr	2.140706	5.274	40088.343	ug/L	19943.039
55 Mn	2.035983	2.021	29330.094	ug/L	850.041
59 Co	2.025736	0.833	20225.351	ug/L	83.334
60 Ni	1.951197	3.376	4173.991	ug/L	35.220
65 Cu	1.963828	2.911	4309.511	ug/L	106.599
68 Zn	9.740517	0.790	8410.374	ug/L	425.010
75 As	1.284490	20.344	19594.666	ug/L	15932.220
72 Ge-1			1131885.756	ug/L	1051521.414
111 Cd	2.057353	2.612	3276.374	ug/L	42.857
121 Sb	0.764848	7.813	3866.858	ug/L	87.334
135 Ba	1.914758	0.808	3288.618	ug/L	77.667
115 In-1			988628.950	ug/L	1010514.089
208 Pb	2.043590	0.868	46727.702	ug/L	608.675
169 Tm-1			809068.142	ug/L	823249.565
50 Cr	3.431583	5.650	720.356	ug/L	-45.711
53 Cr	-6.000601	26.782	17147.987	ug/L	18388.364
61 Ni	-22.160078	7.886	1733.481	ug/L	2281.500
63 Cu	2.002967	3.576	3232.673	ug/L	82.668
67 Zn	8.258763	12.083	1456.006	ug/L	820.776
66 Zn	9.664966	1.923	3790.965	ug/L	87.668
72 Ge			1131885.756	ug/L	1051521.414
108 Cd	2.033545	2.004	239.177	ug/L	4.235
114 Cd	2.021122	2.663	7514.863	ug/L	117.318
115 In			988628.950	ug/L	1010514.089
208 207.977	2.071559	1.355	24328.782	ug/L	317.006
207 Pb	1.998677	1.991	9687.694	ug/L	123.001
206 Pb	2.025948	0.749	12711.226	ug/L	168.668
169 Tm			809068.142	ug/L	823249.565
106 Pd	2.289973	1.465	328.339	ug/L	5.667
83 Kr	174.074490	127.872	344.340	ug/L	328.673

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Sample ID: LLSTD2

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	109.943
Be	9	
> Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	107.643
Cd	111	
Sb	121	
Ba	135	
> In-1	115	97.834
Pb	208	
> Tm-1	169	98.277
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	107.643
Cd	108	
Cd	114	
> In	115	97.834
207.977	208	
Pb	207	
Pb	206	
> Tm	169	98.277
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:15:06

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\ICSA.031

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				908979.562	ug/L	1183872.547
6 Li-1				154481.958	ug/L	187750.026
9 Be	0.045776	66.484		4.333	ug/L	0.000
27 Al	90748.712804	3.279	233751141.739		ug/L	20697.465
44 Ca	84996.578466	2.607	13930224.793		ug/L	6958.099
52 Cr	2.453695	4.420		30539.871	ug/L	19943.039
55 Mn	5.526596	0.720		55694.411	ug/L	850.041
59 Co	2.717742	0.706		19341.359	ug/L	83.334
60 Ni	4.530380	3.003		6880.724	ug/L	35.220
65 Cu	0.516634	12.364		869.621	ug/L	106.599
68 Zn	3.872639	0.603		2582.714	ug/L	425.010
75 As	-0.336392	68.281		11783.482	ug/L	15932.220
72 Ge-1			807720.417		ug/L	1051521.414
111 Cd	0.509478	17.997		695.521	ug/L	42.857
121 Sb	0.385951	9.183		1643.822	ug/L	87.334
135 Ba	0.841678	0.936		1227.419	ug/L	77.667
115 In-1				815414.295	ug/L	1010514.089
208 Pb	0.959066	2.721		17412.404	ug/L	608.675
169 Tm-1				633416.148	ug/L	823249.565
50 Cr	310.578113	10.310		49617.633	ug/L	-45.711
53 Cr	28.778260	4.841		23192.143	ug/L	18388.364
61 Ni	21.375678	4.317		2250.144	ug/L	2281.500
63 Cu	6.389442	0.550		7220.000	ug/L	82.668
67 Zn	28.481647	2.853		2038.665	ug/L	820.776
66 Zn	10.203923	1.539		2852.635	ug/L	87.668
72 Ge			807720.417		ug/L	1051521.414
108 Cd	73.908518	0.559		7049.036	ug/L	4.235
114 Cd	4.384871	0.303		13337.219	ug/L	117.318
115 In				815414.295	ug/L	1010514.089
208 207.977	0.978456	3.495		9121.420	ug/L	317.006
207 Pb	0.968766	2.074		3724.793	ug/L	123.001
206 Pb	0.915265	2.149		4566.191	ug/L	168.668
169 Tm				633416.148	ug/L	823249.565
106 Pd	0.726253	15.635		108.001	ug/L	5.667
83 Kr	2414.850031	9.965		546.017	ug/L	328.673

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Sample ID: ICSA

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
Li-1	6	82.281
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Ge-1	72	76.814
Cd	111	
Sb	121	
Ba	135	
In-1	115	80.693
Pb	208	
Tm-1	169	76.941
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Ge	72	76.814
Cd	108	
Cd	114	
In	115	80.693
207.977	208	
Pb	207	
Pb	206	
Tm	169	76.941
Pd	106	
Kr	83	

BJones

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:18:59

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\ICSAB.032

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					817377.639	ug/L		1183872.547
6 Li-1					145091.216	ug/L		187750.026
9 Be	88.544284	0.773			7852.524	ug/L		0.000
27 Al	81603.847479	2.849			207091202.222	ug/L		20697.465
44 Ca	77053.695247	2.469			12443055.117	ug/L		6958.099
52 Cr	102.815518	0.732			643930.988	ug/L		19943.039
55 Mn	105.580896	0.802			1036847.347	ug/L		850.041
59 Co	107.864603	0.589			754031.326	ug/L		83.334
60 Ni	103.309333	0.481			154035.010	ug/L		35.220
65 Cu	92.097922	0.210			138432.291	ug/L		106.599
68 Zn	91.832048	0.573			53047.660	ug/L		425.010
75 As	106.781339	0.132			155074.226	ug/L		15932.220
72 Ge-1					795967.001	ug/L		1051521.414
111 Cd	98.854142	0.617			126382.876	ug/L		42.857
121 Sb	47.111579	1.107			189398.004	ug/L		87.334
135 Ba	96.517690	0.458			131706.168	ug/L		77.667
115 In-1					803686.403	ug/L		1010514.089
208 Pb	106.758861	1.183			1933125.980	ug/L		608.675
169 Tm-1					648834.455	ug/L		823249.565
50 Cr	367.587122	10.154			57970.575	ug/L		-45.711
53 Cr	91.930366	5.109			42455.776	ug/L		18388.364
61 Ni	126.761369	3.497			4633.768	ug/L		2281.500
63 Cu	99.168193	0.880			109517.970	ug/L		82.668
67 Zn	119.925681	2.819			6465.687	ug/L		820.776
66 Zn	100.689658	0.548			27149.089	ug/L		87.668
72 Ge					795967.001	ug/L		1051521.414
108 Cd	163.674613	1.432			15380.978	ug/L		4.235
114 Cd	100.395977	0.476			298931.636	ug/L		117.318
115 In					803686.403	ug/L		1010514.089
208 207.977	104.825380	1.816			974895.456	ug/L		317.006
207 Pb	106.861841	0.285			410331.258	ug/L		123.001
206 Pb	110.299092	1.012			547899.266	ug/L		168.668
169 Tm					648834.455	ug/L		823249.565
106 Pd	86.744372	1.332			12228.540	ug/L		5.667
83 Kr	1948.171716	6.169			504.015	ug/L		328.673

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Sample ID: ICSAB

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	77.279
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	75.697
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	79.532
Pb	208	
[> Tm-1	169	78.814
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	75.697
Cd	108	
Cd	114	
[> In	115	79.532
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	78.814
Pd	106	
Kr	83	

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:22:53

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\Rinse.033

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1015448.774	ug/L	1183872.547	
6 Li-1					158381.592	ug/L	187750.026	
9 Be	0.013701	41.140			1.333	ug/L	0.000	
27 Al	0.306621	62.242			21841.241	ug/L	20697.465	
44 Ca	-2.473498	26.821			6465.055	ug/L	6958.099	
52 Cr	-0.296778	0.495			17639.764	ug/L	19943.039	
55 Mn	-0.006244	43.013			773.368	ug/L	850.041	
59 Co	-0.000737	185.096			77.000	ug/L	83.334	
60 Ni	0.002281	104.645			39.917	ug/L	35.220	
65 Cu	0.013873	14.811			134.876	ug/L	106.599	
68 Zn	-0.009979	177.928			419.677	ug/L	425.010	
75 As	-0.244247	54.202			15585.057	ug/L	15932.220	
72 Ge-1					1057185.061	ug/L	1051521.414	
111 Cd	0.006913	192.899			53.040	ug/L	42.857	
121 Sb	0.284885	11.941			1496.462	ug/L	87.334	
135 Ba	0.005114	108.547			84.667	ug/L	77.667	
115 In-1					990780.998	ug/L	1010514.089	
208 Pb	0.005583	19.739			719.012	ug/L	608.675	
169 Tm-1					803264.804	ug/L	823249.565	
50 Cr	0.100600	26.568			-24.919	ug/L	-45.711	
53 Cr	-6.106644	23.821			15971.424	ug/L	18388.364	
61 Ni	-15.245522	10.432			1829.202	ug/L	2281.500	
63 Cu	0.008549	90.326			95.668	ug/L	82.668	
67 Zn	-0.899280	109.398			766.761	ug/L	820.776	
66 Zn	-0.004224	507.855			86.668	ug/L	87.668	
72 Ge					1057185.061	ug/L	1051521.414	
108 Cd	0.288614	5.173			37.569	ug/L	4.235	
114 Cd	0.016429	34.732			175.403	ug/L	117.318	
115 In					990780.998	ug/L	1010514.089	
208 207.977	0.007329	24.741			393.676	ug/L	317.006	
207 Pb	0.006099	59.730			149.001	ug/L	123.001	
206 Pb	0.001915	209.860			176.335	ug/L	168.668	
169 Tm					803264.804	ug/L	823249.565	
106 Pd	0.009463	270.416			7.000	ug/L	5.667	
83 Kr	29.629828	1183.673			331.340	ug/L	328.673	

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Sample ID: Rinse

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	84.358
] Be	9	
] Al	27	
] Ca	44	
] Cr	52	
] Mn	55	
] Co	59	
] Ni	60	
] Cu	65	
] Zn	68	
] As	75	
[> Ge-1	72	100.539
] Cd	111	
] Sb	121	
] Ba	135	
[> In-1	115	98.047
] Pb	208	
[> Tm-1	169	97.572
] Cr	50	
] Cr	53	
] Ni	61	
] Cu	63	
] Zn	67	
] Zn	66	
[> Ge	72	100.539
] Cd	108	
] Cd	114	
[> In	115	98.047
] 207.977	208	
] Pb	207	
] Pb	206	
[> Tm	169	97.572
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 4**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:26:49

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCV 4.034

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1122474.034	ug/L	1183872.547	
6 Li-1					171444.067	ug/L	187750.026	
9 Be	100.458722	0.145			10527.329	ug/L	0.000	
27 Al	4517.048340	0.877	4517.048340		14901366.374	ug/L	20697.465	
44 Ca	4941.477819	1.141			1042427.562	ug/L	6958.099	
52 Cr	98.513788	0.594			801952.760	ug/L	19943.039	
55 Mn	96.896856	1.193			1235583.698	ug/L	850.041	
59 Co	99.167498	0.657			900147.246	ug/L	83.334	
60 Ni	97.200896	0.646			188180.342	ug/L	35.220	
65 Cu	96.054373	1.032			187476.117	ug/L	106.599	
68 Zn	97.951415	1.136			73443.651	ug/L	425.010	
75 As	103.892095	0.786			196335.034	ug/L	15932.220	
72 Ge-1					1033551.485	ug/L	1051521.414	
111 Cd	105.788904	1.290			159241.168	ug/L	42.857	
121 Sb	49.408856	1.578			233860.552	ug/L	87.334	
135 Ba	93.898300	1.871			150851.971	ug/L	77.667	
115 In-1					946455.979	ug/L	1010514.089	
208 Pb	102.172334	0.794			2140769.499	ug/L	608.675	
169 Tm-1					750821.972	ug/L	823249.565	
50 Cr	99.002473	3.735			20228.951	ug/L	-45.711	
53 Cr	95.135778	1.358			56407.876	ug/L	18388.364	
61 Ni	80.974377	0.115			4653.462	ug/L	2281.500	
63 Cu	98.520039	0.518			141271.819	ug/L	82.668	
67 Zn	97.081383	1.005			6949.052	ug/L	820.776	
66 Zn	96.344575	0.659			33736.823	ug/L	87.668	
72 Ge					1033551.485	ug/L	1051521.414	
108 Cd	106.668987	1.967			11803.994	ug/L	4.235	
114 Cd	103.257483	1.475			361992.095	ug/L	117.318	
115 In					946455.979	ug/L	1010514.089	
208 207.977	102.781181	0.919	102.781181		1106065.010	ug/L	317.006	
207 Pb	101.139474	0.914			449387.019	ug/L	123.001	
206 Pb	101.830888	0.935			585317.470	ug/L	168.668	
169 Tm					750821.972	ug/L	823249.565	
106 Pd	110.950151	1.513			15639.299	ug/L	5.667	
83 Kr	88.889016	260.209			336.673	ug/L	328.673	

Report Date/Time: Friday, December 22, 2006 11:11:50

Page 1

Sample ID: CCV 4

G6L050146

STL Sacramento (916) 373 - 5600

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	91.315
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.291
Cd	111	
Sb	121	
Ba	135	
> In-1	115	93.661
Pb	208	
> Tm-1	169	91.202
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	98.291
Cd	108	
Cd	114	
> In	115	93.661
207.977	208	
Pb	207	
Pb	206	
> Tm	169	91.202
Pd	106	
Kr	83	

**Sample ID: CCB 4**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, December 21, 2006 19:30:44

Method File: C:\elandata\Method\6347212R.mth

Dataset File: c:\elandata\dataset\061221b1\CCB 4.035

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1146414.411	ug/L	1183872.547
6 Li-1				165231.440	ug/L	187750.026
9 Be	0.010041	102.060		1.000	ug/L	0.000
27 Al	-0.167153	58.910		20063.311	ug/L	20697.465
44 Ca	-3.017026	29.033		6290.594	ug/L	6958.099
52 Cr	-0.191440	36.839		18324.837	ug/L	19943.039
55 Mn	-0.000395	1411.046		841.707	ug/L	850.041
59 Co	0.002983	33.460		110.334	ug/L	83.334
60 Ni	0.001006	360.762		36.958	ug/L	35.220
65 Cu	0.006294	47.372		118.624	ug/L	106.599
68 Zn	-0.030722	49.844		400.343	ug/L	425.010
75 As	-0.297628	114.872		15345.083	ug/L	15932.220
72 Ge-1				1047971.790	ug/L	1051521.414
111 Cd	0.000072	4056.759		41.206	ug/L	42.857
121 Sb	0.042126	9.428		288.005	ug/L	87.334
135 Ba	-0.006055	64.527		64.667	ug/L	77.667
115 In-1				970140.706	ug/L	1010514.089
208 Pb	0.005850	16.196		683.344	ug/L	608.675
169 Tm-1				757063.523	ug/L	823249.565
50 Cr	0.083477	82.786		-28.141	ug/L	-45.711
53 Cr	-4.343670	67.671		16547.855	ug/L	18388.364
61 Ni	-17.278519	4.587		1752.158	ug/L	2281.500
63 Cu	-0.005403	167.639		74.334	ug/L	82.668
67 Zn	-0.402264	286.665		791.767	ug/L	820.776
66 Zn	-0.022788	76.755		79.334	ug/L	87.668
72 Ge				1047971.790	ug/L	1051521.414
108 Cd	0.122278	19.099		17.963	ug/L	4.235
114 Cd	0.006832	29.273		137.258	ug/L	117.318
115 In				970140.706	ug/L	1010514.089
208 207.977	0.006331	28.551		360.341	ug/L	317.006
207 Pb	0.006237	18.792		141.001	ug/L	123.001
206 Pb	0.004652	15.704		182.002	ug/L	168.668
169 Tm				757063.523	ug/L	823249.565
106 Pd	0.033119	61.859		10.333	ug/L	5.667
83 Kr	81.481420	89.420		336.006	ug/L	328.673

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	88.006
Be	9	
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	99.662
Cd	111	
Sb	121	
Ba	135	
> In-1	115	96.005
Pb	208	
> Tm-1	169	91.960
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	99.662
Cd	108	
Cd	114	
> In	115	96.005
207.977	208	
Pb	207	
Pb	206	
> Tm	169	91.960
Pd	106	
Kr	83	

SEVERN  
TRENT

STL

STL Sacramento  
ICP-MS Data Review Checklist  
Level I and Level II

Instrument ID (Circle one): <b>M01</b> <b>M02</b>		Method 6020 SOP SAC-MT-0001																										
File Number <b>061222B1</b>	Batch Numbers <b>6347212</b>	Date <b>12/22/06</b>	Analyst <b>BRJ</b>																									
Lot Numbers <b>G6L050146</b>			YES	NO																								
			NA																									
<table border="1"><tr><td>1. Copy of analysis protocol used included?</td><td>✓</td></tr><tr><td>2. ICVs &amp; CCVs within 10% of true value or recal and rerun?</td><td>✓</td></tr><tr><td>3. ICB &amp; CCBs &lt; reporting limit or recal and rerun?</td><td>✓</td></tr><tr><td>4. 10 samples or less analyzed between calibration checks?</td><td>✓</td></tr><tr><td>5. All parameters within linear range?</td><td>✓</td></tr><tr><td>6. LCS/LCSD within limits?</td><td>✓</td></tr><tr><td>7. Prep blank value &lt; reporting limit or all samples &gt;20x blank?</td><td>✓</td></tr><tr><td>8. Internal standard intensities for samples (unless followed by dilution) are &gt; 30% and &lt;130% of the Calibration Blank intensities?</td><td>✓</td></tr><tr><td>9. Appropriate dilution factors applied to data?</td><td>✓</td></tr><tr><td>10. Matrix spike and spike dup within customer defined limits?</td><td>✓</td></tr><tr><td>11. Each batch checked for presence of internal standard in samples?</td><td>✓</td></tr><tr><td>12. Anomalies entered using Clouseau?</td><td>✓</td></tr></table>					1. Copy of analysis protocol used included?	✓	2. ICVs & CCVs within 10% of true value or recal and rerun?	✓	3. ICB & CCBs < reporting limit or recal and rerun?	✓	4. 10 samples or less analyzed between calibration checks?	✓	5. All parameters within linear range?	✓	6. LCS/LCSD within limits?	✓	7. Prep blank value < reporting limit or all samples >20x blank?	✓	8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?	✓	9. Appropriate dilution factors applied to data?	✓	10. Matrix spike and spike dup within customer defined limits?	✓	11. Each batch checked for presence of internal standard in samples?	✓	12. Anomalies entered using Clouseau?	✓
1. Copy of analysis protocol used included?	✓																											
2. ICVs & CCVs within 10% of true value or recal and rerun?	✓																											
3. ICB & CCBs < reporting limit or recal and rerun?	✓																											
4. 10 samples or less analyzed between calibration checks?	✓																											
5. All parameters within linear range?	✓																											
6. LCS/LCSD within limits?	✓																											
7. Prep blank value < reporting limit or all samples >20x blank?	✓																											
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?	✓																											
9. Appropriate dilution factors applied to data?	✓																											
10. Matrix spike and spike dup within customer defined limits?	✓																											
11. Each batch checked for presence of internal standard in samples?	✓																											
12. Anomalies entered using Clouseau?	✓																											

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REVIEWED BY:

DATE:

DATA ENTERED BY: **BRJ**

DATE: **12/26/06**

# Dataset Report

Perkin Elmer ICPMS M01

SOP No. SAC-MT-0001

Method 6020

User Name: JonesB

Computer Name: SACP317A

Dataset File Path: C:\elandata\Dataset\061222B1\

Report Date/Time: Friday, December 22, 2006 18:03:20

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	Rinse 3X	15:10:27 Fri 22-Dec-06	Sample	
	Blank	15:13:33 Fri 22-Dec-06	Blank	
	Standard 1	15:16:33 Fri 22-Dec-06	Standard #1	
	ICV	15:19:17 Fri 22-Dec-06	Sample	
	ICB	15:22:06 Fri 22-Dec-06	Sample	
	LLSTD1	15:24:54 Fri 22-Dec-06	Sample	LL STD @10X
	LLSTD2	15:27:40 Fri 22-Dec-06	Sample	LL STD @5X
	ICSA	15:31:53 Fri 22-Dec-06	Sample	
	ICSAB	15:34:40 Fri 22-Dec-06	Sample	
	Rinse	15:42:17 Fri 22-Dec-06	Sample	
	CCV 1 >RECAR	15:45:07 Fri 22-Dec-06	Sample	
	CCB 1	15:47:57 Fri 22-Dec-06	Sample	
	CCV 2	15:50:47 Fri 22-Dec-06	Sample	
	CCB 2	15:53:36 Fri 22-Dec-06	Sample	
6347212	JLC05C	15:56:24 Fri 22-Dec-06	Sample	G6L130000-212 LCS
6347212	JLC05L	15:59:08 Fri 22-Dec-06	Sample	G6L130000-212 LCSD
	Rinse	16:01:56 Fri 22-Dec-06	Sample	
6347212	JLC05B	16:04:47 Fri 22-Dec-06	Sample	G6L130000-212 BLK
6347212	JKRXA	16:07:35 Fri 22-Dec-06	Sample	G6L050146-1
6347212	JKRXAP5	16:10:20 Fri 22-Dec-06	Sample	G6L050146-1 5X
6347212	JKRXAZ	16:13:06 Fri 22-Dec-06	Sample	G6L050146-1 PS
6347212	JKRXC	16:15:52 Fri 22-Dec-06	Sample	G6L050146-2
6347212	JKRXD	16:18:39 Fri 22-Dec-06	Sample	G6L050146-3
6347212	JKRXE	16:21:26 Fri 22-Dec-06	Sample	G6L050146-4
	CCV 3	16:24:15 Fri 22-Dec-06	Sample	
	CCB 3	16:27:04 Fri 22-Dec-06	Sample	
	CCV 4	16:29:54 Fri 22-Dec-06	Sample	
	CCB 4	16:32:43 Fri 22-Dec-06	Sample	
6347212	FB	16:35:33 Fri 22-Dec-06	Sample	G6L130000-212 BLK CHK
	LLSTD1	16:38:21 Fri 22-Dec-06	Sample	LL STD @10X
	LLSTD2	16:41:07 Fri 22-Dec-06	Sample	LL STD @5X
	ICSA	16:43:54 Fri 22-Dec-06	Sample	
	ICSAB	16:46:41 Fri 22-Dec-06	Sample	
	Rinse	16:49:29 Fri 22-Dec-06	Sample	
	CCV 5	16:52:19 Fri 22-Dec-06	Sample	
	CCB 5	16:55:09 Fri 22-Dec-06	Sample	

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/26/06 12:20:18

File ID: 061222B1

Analyst: jonesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse 3X			3.0	12/22/06 15:10		<input type="checkbox"/>
2	Blank			1.0	12/22/06 15:13		<input type="checkbox"/>
3	Standard1			1.0	12/22/06 15:16		<input type="checkbox"/>
4	ICV			1.0	12/22/06 15:19		<input type="checkbox"/>
5	ICB			1.0	12/22/06 15:22		<input type="checkbox"/>
6	LLSTD1			1.0	12/22/06 15:24		<input type="checkbox"/>
7	LLSTD2			1.0	12/22/06 15:27		<input type="checkbox"/>
8	ICSA			1.0	12/22/06 15:31		<input type="checkbox"/>
9	ICSAB			1.0	12/22/06 15:34		<input type="checkbox"/>
10	Rinse			1.0	12/22/06 15:42		<input type="checkbox"/>
11	CCV 1			1.0	12/22/06 15:45		<input type="checkbox"/>
12	CCB 1			1.0	12/22/06 15:47		<input type="checkbox"/>
15	CCV 2			1.0	12/22/06 15:50		<input type="checkbox"/>
16	CCB 2			1.0	12/22/06 15:53		<input type="checkbox"/>
17	JLC05C	G6L130000	6347212	2A	1.0	12/22/06 15:56	<input type="checkbox"/>
18	JLC05L	G6L130000	6347212	2A	1.0	12/22/06 15:59	<input type="checkbox"/>
19	Rinse				1.0	12/22/06 16:01	<input type="checkbox"/>
20	JLC05B	G6L130000	6347212	2A	1.0	12/22/06 16:04	<input type="checkbox"/>
21	JKRXA	G6L050146-1	6347212	2A	1.0	12/22/06 16:07	<input type="checkbox"/>
22	JKRXAP5	G6L050146	6347212		5.0	12/22/06 16:10	<input type="checkbox"/>
23	JKRXAZ	G6L050146-1	6347212		1.0	12/22/06 16:13	<input type="checkbox"/>
24	JKRXC	G6L050146-2	6347212	2A	1.0	12/22/06 16:15	<input type="checkbox"/>
25	JKRXD	G6L050146-3	6347212	2A	1.0	12/22/06 16:18	<input type="checkbox"/>
26	JKRXE	G6L050146-4	6347212	2A	1.0	12/22/06 16:21	<input type="checkbox"/>
27	CCV 3				1.0	12/22/06 16:24	<input type="checkbox"/>
28	CCB 3				1.0	12/22/06 16:27	<input type="checkbox"/>
29	CCV 4				1.0	12/22/06 16:29	<input type="checkbox"/>
30	CCB 4				1.0	12/22/06 16:32	<input type="checkbox"/>
31	FB				1.0	12/22/06 16:35	<input type="checkbox"/>
32	LLSTD1				1.0	12/22/06 16:38	<input type="checkbox"/>
33	LLSTD2				1.0	12/22/06 16:41	<input type="checkbox"/>
34	ICSA				1.0	12/22/06 16:43	<input type="checkbox"/>
35	ICSAB				1.0	12/22/06 16:46	<input type="checkbox"/>
36	Rinse				1.0	12/22/06 16:49	<input type="checkbox"/>
37	CCV 5				1.0	12/22/06 16:52	<input type="checkbox"/>
38	CCB 5				1.0	12/22/06 16:55	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/26/06 12:20:18

File ID: 061222B1

Analyst: ionesb

Germanium

Q

# Sample ID Analyzed Date

1	Rinse 3X	12/22/06 15:10		100.6	<input type="checkbox"/>
2	Blank	12/22/06 15:13		100.0	<input checked="" type="checkbox"/>
3	Standard1	12/22/06 15:16		97.4	<input checked="" type="checkbox"/>
4	ICV	12/22/06 15:19		96.8	<input checked="" type="checkbox"/>
5	ICB	12/22/06 15:22		96.5	<input checked="" type="checkbox"/>
6	LLSTD1	12/22/06 15:24		96.9	<input checked="" type="checkbox"/>
7	LLSTD2	12/22/06 15:27		79.8	<input checked="" type="checkbox"/>
8	ICSA	12/22/06 15:31		79.1	<input checked="" type="checkbox"/>
9	ICSAB	12/22/06 15:34		95.3	<input checked="" type="checkbox"/>
10	Rinse	12/22/06 15:42		94.3	<input checked="" type="checkbox"/>
11	CCV 1	12/22/06 15:45		95.1	<input checked="" type="checkbox"/>
12	CCB 1	12/22/06 15:47		98.4	<input checked="" type="checkbox"/>
15	CCV 2	12/22/06 15:50		100.3	<input checked="" type="checkbox"/>
16	CCB 2	12/22/06 15:53		98.7	<input checked="" type="checkbox"/>
17	JLC05C	12/22/06 15:56		95.0	<input checked="" type="checkbox"/>
18	JLC05L	12/22/06 15:59		98.9	<input checked="" type="checkbox"/>
19	Rinse	12/22/06 16:01		99.0	<input checked="" type="checkbox"/>
20	JLC05B	12/22/06 16:04		98.7	<input checked="" type="checkbox"/>
21	JKRXA	12/22/06 16:07		101.2	<input type="checkbox"/>
22	JKRXAP5	12/22/06 16:10		98.4	<input checked="" type="checkbox"/>
23	JKRXAZ	12/22/06 16:13		99.4	<input checked="" type="checkbox"/>
24	JKRXC	12/22/06 16:15		99.7	<input checked="" type="checkbox"/>
25	JKRXD	12/22/06 16:18		100.5	<input checked="" type="checkbox"/>
26	JKRXE	12/22/06 16:21		101.3	<input checked="" type="checkbox"/>
27	CCV 3	12/22/06 16:24		102.9	<input checked="" type="checkbox"/>
28	CCB 3	12/22/06 16:27		102.1	<input checked="" type="checkbox"/>
29	CCV 4	12/22/06 16:29		101.9	<input checked="" type="checkbox"/>
30	CCB 4	12/22/06 16:32		103.6	<input checked="" type="checkbox"/>
31	FB	12/22/06 16:35		103.4	<input checked="" type="checkbox"/>
32	LLSTD1	12/22/06 16:38		103.7	<input checked="" type="checkbox"/>
33	LLSTD2	12/22/06 16:41		85.5	<input checked="" type="checkbox"/>
34	ICSA	12/22/06 16:43		85.6	<input checked="" type="checkbox"/>
35	ICSAB	12/22/06 16:46		101.8	<input checked="" type="checkbox"/>
36	Rinse	12/22/06 16:49		101.6	<input checked="" type="checkbox"/>
37	CCV 5	12/22/06 16:52		101.7	<input checked="" type="checkbox"/>
38	CCB 5	12/22/06 16:55			

**STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report**

File Name: 6347212R2.mth  
File Path: C:\elandata\Method\6347212R2.mth

**Timing Parameters**

Sweeps/Reading: 50  
Readings/Replicate: 1  
Number of Replicates: 3  
Tuning File: default.tun  
Optimization File: default.dac  
QC Enabled: Yes  
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms

**Signal Processing**

Detector Mode: Dual  
Measurement Units: Counts  
AutoLens: On  
Spectral Peak Processing: Average  
Signal Profile Processing: Average  
Blank Subtraction: After Internal Standard  
Baseline Readings: 0  
Smoothing: Yes, Factor 5

**Equations**

Analyte	Mass	Corrections
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51

**Calibration Information**

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100			
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100			

Report Date/Time: Friday, December 22, 2006 18:03:29

Kr 82.914 Linear Thru Zero ug/L ug/L 100

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8**

**AIR TOX STANDARDS - 4 % HNO<sub>3</sub>, 0.5 % HCl**

**Standards for run:**

Tuning standard: 2830-25D

Internal standard: 2830-28A

Blank, CCBs: 2531-36F

Standard 1, CCVs: 2830-27E

ICV: 2830-18D

ICSA: 2830-26E

ICSAB: 2830-28E

File Number: 061222B1

## Instrument Tuning Report - Elan 6000

File Name: default.tun

### Sample Information

Sample Date/Time: Friday, December 22, 2006 09:49:57

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1591	0.778	2021	
Be	9.012	9.029	2056	0.763	2006	
Co	58.933	58.928	14296	0.748	1882	
In	114.904	114.928	27958	0.747	1843	
Ce	139.905	139.878	34029	0.737	1889	
Tl	204.975	204.979	49745	0.736	2110	
Pb	207.977	207.979	50476	0.714	2132	
U	238.050	238.076	57688	0.700	2298	

## Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac

Path c:\elandata\Optimize

### Sample Information

Sample Date/Time: Friday, December 22, 2006 09:49:57

Sample ID: TUNE BJONES

### Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	6.8
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

### AutoLens Calibration

Date:	09:53:24 Fri 22-Dec-06
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	061222a1\
Lens Voltage Start:	3.00 V
Lens Voltage End:	8.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0308
Intercept:	3.8731

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.3 V	6290 cps	21
Co	58.933	5.5 V	176379 cps	21
In	114.904	7.5 V	301250 cps	21

### Dual Detector Calibration

Date:	12:08:41 Sat 09-Dec-06
Sample Filename:	DUAL BJONES.788
Dataset Pathname:	c:\elandata\Dataset\dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.016	5919	2.12e+009 cps
Li	7.016	5484	2.28e+009 cps
Be	9.012	5119	2.45e+009 cps
B	11.011	5338	2.35e+009 cps
Na	22.991	5317	2.35e+009 cps

Report Date/Time: Friday, December 22, 2006 13:52:28

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**STL SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8**

Mg	23.984	5074 2.47e+009 cps
Mg	24.984	4843 2.58e+009 cps
Al	26.981	4776 2.62e+009 cps
P	30.995	4360 2.87e+009 cps
K	38.965	4229 2.96e+009 cps
Ca	42.959	cps
Ca	43.955	4296 2.91e+009 cps
Sc	44.956	4236 2.96e+009 cps
V	50.946	4191 2.99e+009 cps
Cr	51.942	4051 3.09e+009 cps
Fe	53.939	4063 3.08e+009 cps
Mn	54.939	4004 3.13e+009 cps
Fe	56.936	3882 3.22e+009 cps
Co	58.934	3807 3.29e+009 cps
Ni	59.935	3796 3.30e+009 cps
Cu	62.931	3687 3.40e+009 cps
Cu	64.927	3732 3.35e+009 cps
Zn	67.924	3713 3.37e+009 cps
Ge	71.920	3718 3.37e+009 cps
As	74.920	3658 3.42e+009 cps
Se	77.917	3810 3.29e+009 cps
Br	78.917	cps
Se	81.917	3613 3.46e+009 cps
Sr	87.906	3640 3.44e+009 cps
Mo	96.907	3748 3.34e+009 cps
Ag	106.905	3458 3.62e+009 cps
Ag	108.905	3464 3.61e+009 cps
Cd	110.905	3480 3.60e+009 cps
Cd	113.906	3502 3.57e+009 cps
In	114.903	3528 3.55e+009 cps
Sn	117.900	3583 3.49e+009 cps
Sb	120.905	3456 3.62e+009 cps
Ba	134.906	3424 3.66e+009 cps
Tm	168.932	3386 3.70e+009 cps
Tl	204.974	3200 3.91e+009 cps
Pb	207.979	3230 3.88e+009 cps
Bi	208.979	cps
U	238.050	3234 3.87e+009 cps

## Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES

Sample Date/Time: Friday, December 22, 2006 11:05:16

Sample Description:

Sample File: C:\elandata\Sample\6347212X.sam

Method File: C:\elandata\Method\000-DAILY\_EPA.mth

Dataset File: C:\elandata\Dataset\061222a1\DAILY BJONES.006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 5

Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	38006.841	409.521	1.077
Rh	103	232200.304	1179.043	0.508
Pb	208	155454.733	1377.577	0.886
[> Ba	138	260396.814	3243.543	1.246
[< Ba++	69	0.023	0.001	3.690
[> Ce	140	317844.447	2379.209	0.749
[< CeO	156	0.032	0.001	4.394
Bkgd	220	1.714	0.639	37.268
Li	7	3631.385	104.020	2.864
Be	9	1627.535	78.720	4.837
Co	59	131969.624	1510.130	1.144
In	115	297132.647	3420.005	1.151
Tl	205	225594.006	4027.898	1.785

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse 3X**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:10:27

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\Rinse 3X.001

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1355009.574	ug/L		0.000
27 Al					127630.803	ug/L		0.000
44 Ca					17091.343	ug/L		0.000
52 Cr					25677.630	ug/L		0.000
59 Co					187.335	ug/L		0.000
72 Ge-1					983785.175	ug/L		0.000
50 Cr					-71.271	ug/L		0.000
53 Cr					28219.297	ug/L		0.000
72 Ge					983785.175	ug/L		0.000
106 Pd					12.667	ug/L		0.000
83 Kr					379.342	ug/L		0.000

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	
Cr	50	
Cr	53	
Ge	72	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: Blank**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:13:33

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\Blank.002

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1360130.818		ug/L	
27 Al					19039.693		ug/L	
44 Ca					14664.278		ug/L	
52 Cr					32363.407		ug/L	
59 Co					71.000		ug/L	
72 Ge-1					977608.225		ug/L	
50 Cr					-131.220		ug/L	
53 Cr					39929.508		ug/L	
72 Ge					977608.225		ug/L	
106 Pd					10.000		ug/L	
83 Kr					370.341		ug/L	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	
Cr	50	
Cr	53	
Ge	72	
Pd	106	
Kr	83	

BJones

**Sample ID: Standard 1**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:16:33

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\Standard 1.003

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1312260.782	ug/L	1360130.818
27 Al	5100.000000	1.342	29775071.820	ug/L	19039.693
44 Ca	5100.000000	0.465	1496041.721	ug/L	14664.278
52 Cr	100.000000	0.434	1033856.122	ug/L	32363.407
59 Co	100.000000	1.541	1107455.114	ug/L	71.000
72 Ge-1			952123.447	ug/L	977608.225
50 Cr	100.000000	4.114	23039.446	ug/L	-131.220
53 Cr	100.000000	0.765	79789.309	ug/L	39929.508
72 Ge			952123.447	ug/L	977608.225
106 Pd	100.000000	1.756	15076.313	ug/L	10.000
83 Kr	100.000000	429.272	377.008	ug/L	370.341

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45
Al	27
Ca	44
Cr	52
Co	59
Ge-1	72
Cr	50
Cr	53
Ge	72
Pd	106
Kr	83

SOP No. SAC-MT-0001

BJones

**Sample ID: ICV**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:19:17

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\ICV .004

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1295182.063	ug/L	1360130.818
27 Al	829.531260	1.207	4831621.403	ug/L	19039.693
44 Ca	972.265411	0.803	295075.967	ug/L	14664.278
52 Cr	82.065556	0.657	849262.103	ug/L	32363.407
59 Co	81.787822	0.894	900758.709	ug/L	71.000
72 Ge-1			946775.134	ug/L	977608.225
50 Cr	74.474364	3.121	17028.738	ug/L	-131.220
53 Cr	84.565891	1.358	73063.376	ug/L	39929.508
72 Ge			946775.134	ug/L	977608.225
106 Pd	78.942729	0.992	11903.759	ug/L	10.000
83 Kr	79.999971	493.354	375.675	ug/L	370.341

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	96.846
Cr	50	
Cr	53	
Ge	72	96.846
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICB**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:22:06

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\ICB.005

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1296596.136	ug/L	1360130.818
27 Al	-0.449947	5.482	15766.860	ug/L	19039.693
44 Ca	3.401518	57.911	15124.738	ug/L	14664.278
52 Cr	0.171648	10.637	32924.495	ug/L	32363.407
59 Co	0.001625	72.323	86.334	ug/L	71.000
72 Ge-1			943087.933	ug/L	977608.225
50 Cr	-0.088361	36.776	-146.863	ug/L	-131.220
53 Cr	2.445588	23.338	39510.547	ug/L	39929.508
72 Ge			943087.933	ug/L	977608.225
106 Pd	0.002212	1352.772	10.333	ug/L	10.000
83 Kr	-104.999845	109.109	363.341	ug/L	370.341

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	96.469
Cr	50	
Cr	53	
Ge	72	96.469
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: LLSTD1**

Sample Description: LL STD @10X

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:24:54

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\LLSTD1.006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 9

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1295522.915	ug/L	1360130.818	
27 Al	61.948294	0.865			378176.707	ug/L	19039.693	
44 Ca	63.200853	2.616			32483.856	ug/L	14664.278	
52 Cr	1.100918	7.228			42343.886	ug/L	32363.407	
59 Co	1.044535	1.482			11580.325	ug/L	71.000	
72 Ge-1					947539.506	ug/L	977608.225	
50 Cr	1.852300	17.588			300.101	ug/L	-131.220	
53 Cr	-5.347490	33.419			36519.158	ug/L	39929.508	
72 Ge					947539.506	ug/L	977608.225	
106 Pd	1.002246	2.388			161.001	ug/L	10.000	
83 Kr	-314.998889	45.757			349.340	ug/L	370.341	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	96.924
Cr	50	
Cr	53	
Ge	72	96.924
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: LLSTD2**

Sample Description: LL STD @5X

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:27:40

Method File: C:\elalandata\Method\6347212R2.mth

Dataset File: C:\elalandata\Dataset\061222B1\LLSTD2.007

Tuning File: c:\elalandata\Tuning\default.tun

Optimization File: c:\elalandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1297694.810	ug/L	1360130.818
27 Al	122.529338	0.468	730020.407	ug/L	19039.693
44 Ca	125.575251	0.908	50522.109	ug/L	14664.278
52 Cr	2.055179	2.020	51868.287	ug/L	32363.407
59 Co	2.114688	0.313	23377.187	ug/L	71.000
72 Ge-1			947543.257	ug/L	977608.225
50 Cr	3.303524	9.029	634.415	ug/L	-131.220
53 Cr	-10.846278	11.622	34287.441	ug/L	39929.508
72 Ge			947543.257	ug/L	977608.225
106 Pd	2.035484	2.656	316.672	ug/L	10.000
83 Kr	29.999813	709.462	372.341	ug/L	370.341

**Internal Standard Recoveries**

Analyte Mass	Int Std % Recovery
Sc 45	
Al 27	
Ca 44	
Cr 52	
Co 59	
Ge-1 72	96.925
Cr 50	
Cr 53	
Ge 72	96.925
Pd 106	
Kr 83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:31:53

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\ICSA.008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1079896.935	ug/L	1360130.818	
27 Al	90288.154672	1.534	431694424.343		ug/L	19039.693		
44 Ca	94541.813739	1.768	22517225.472		ug/L	14664.278		
52 Cr	1.362029	2.812	37008.434		ug/L	32363.407		
59 Co	2.451596	0.851	22303.392		ug/L	71.000		
72 Ge-1			780082.172		ug/L	977608.225		
50 Cr	303.243763	1.388	57452.275		ug/L	-131.220		
53 Cr	-3.384754	37.796	30728.707		ug/L	39929.508		
72 Ge			780082.172		ug/L	977608.225		
106 Pd	0.526564	2.624	89.334		ug/L	10.000		
83 Kr	2830.022572	13.524	559.018		ug/L	370.341		

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	79.795
Cr	50	
Cr	53	
Ge	72	79.795
Pd	106	
Kr	83	

BJones

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:34:40

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\ICSAB.009

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1046622.974	ug/L	1360130.818	
27 Al	83119.747424	0.553	394125924.254		ug/L	19039.693		
44 Ca	89818.059285	0.359	21214705.058		ug/L	14664.278		
52 Cr	101.719389	0.348	854028.811		ug/L	32363.407		
59 Co	100.946001	0.476	908478.123		ug/L	71.000		
72 Ge-1			773639.643		ug/L	977608.225		
50 Cr	433.927843	4.362	81573.403		ug/L	-131.220		
53 Cr	83.413079	2.636	59321.564		ug/L	39929.508		
72 Ge			773639.643		ug/L	977608.225		
106 Pd	81.727622	1.244	12323.339		ug/L	10.000		
83 Kr	3015.026423	16.563	571.352		ug/L	370.341		

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	79.136
Cr	50	
Cr	53	
Ge	72	79.136
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:42:17

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\Rinse.010

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1257450.237	ug/L	1360130.818
27 Al	15.935104	1.132	109165.422	ug/L	19039.693
44 Ca	4.261854	57.003	15187.514	ug/L	14664.278
52 Cr	-0.819030	7.212	22814.376	ug/L	32363.407
59 Co	0.011328	18.910	190.335	ug/L	71.000
72 Ge-1			931996.657	ug/L	977608.225
50 Cr	0.179874	33.660	-84.350	ug/L	-131.220
53 Cr	-26.416231	8.705	27487.085	ug/L	39929.508
72 Ge			931996.657	ug/L	977608.225
106 Pd	-0.015487	130.931	7.667	ug/L	10.000
83 Kr	-239.999238	72.439	354.341	ug/L	370.341

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	95.334
Cr	50	
Cr	53	
Ge	72	95.334
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 1**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:45:07

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCV 1.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1255961.545	ug/L	1360130.818	
27 Al	4606.064254	0.353			26038049.909	ug/L	19039.693	
44 Ca	4811.206176	1.205			1366880.817	ug/L	14664.278	
52 Cr	98.514521	1.062			986295.505	ug/L	32363.407	
59 Co	99.294956	0.416			1064694.218	ug/L	71.000	
72 Ge-1					921732.407	ug/L	977608.225	
50 Cr	100.614244	3.757			22434.851	ug/L	-131.220	
53 Cr	92.877879	2.145			74419.915	ug/L	39929.508	
72 Ge					921732.407	ug/L	977608.225	
106 Pd	97.582101	0.668			14712.025	ug/L	10.000	
83 Kr	114.999913	350.236			378.008	ug/L	370.341	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	94.284
Cr	50	
Cr	53	
Ge	72	94.284
Pd	106	
Kr	83	

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Sample ID: CCV 1

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 1**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:47:57

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCB 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1267726.722	ug/L	1360130.818	
27 Al	-0.561768	8.433			14905.019	ug/L	19039.693	
44 Ca	-3.405278	13.428			12979.286	ug/L	14664.278	
52 Cr	-0.273070	9.354			28106.409	ug/L	32363.407	
59 Co	0.001493	83.592			83.667	ug/L	71.000	
72 Ge-1					929724.105	ug/L	977608.225	
50 Cr	0.092725	69.989			-103.887	ug/L	-131.220	
53 Cr	-2.916623	57.714			36812.316	ug/L	39929.508	
72 Ge					929724.105	ug/L	977608.225	
106 Pd	-0.026549	43.301			6.000	ug/L	10.000	
83 Kr	-184.999533	56.175			358.007	ug/L	370.341	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	95.102
Cr	50	
Cr	53	
Ge	72	95.102
Pd	106	
Kr	83	

Report Date/Time: Friday, December 22, 2006 15:48:31

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Sample ID: CCB 1

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BJones

**Sample ID: BLK RECAL**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:47:57

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCB 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1267726.722	ug/L	
27 Al				14905.019	ug/L	
44 Ca				12979.286	ug/L	
52 Cr				28106.409	ug/L	
59 Co				83.667	ug/L	
72 Ge-1				929724.105	ug/L	
50 Cr				-103.887	ug/L	
53 Cr				36812.316	ug/L	
72 Ge				929724.105	ug/L	
106 Pd				6.000	ug/L	
83 Kr				358.007	ug/L	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	
Cr	50	
Cr	53	
Ge	72	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: STD1 RECAL**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:45:07

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCV 1.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1255961.545	ug/L	1267726.722	
27 Al	5100.000000	0.353	26038049.909		ug/L	14905.019		
44 Ca	5100.000000	1.204	1366880.817		ug/L	12979.286		
52 Cr	100.000000	1.059	986295.505		ug/L	28106.409		
59 Co	100.000000	0.416	1064694.218		ug/L	83.667		
72 Ge-1			921732.407		ug/L	929724.105		
50 Cr	100.000000	3.761	22434.851		ug/L	-103.887		
53 Cr	100.000000	2.080	74419.915		ug/L	36812.316		
72 Ge			921732.407		ug/L	929724.105		
106 Pd	100.000000	0.668	14712.025		ug/L	6.000		
83 Kr	100.000000	134.257	378.008		ug/L	358.007		

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	
Cr	50	
Cr	53	
Ge	72	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 2**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:50:47

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCV 2.013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1256122.660	ug/L		1267726.722
27 Al	5194.474576	1.540			26323459.322	ug/L		14905.019
44 Ca	5191.346587	0.509			1381168.796	ug/L		12979.286
52 Cr	101.268394	1.294			991171.354	ug/L		28106.409
59 Co	100.671289	1.162			1064004.041	ug/L		83.667
72 Ge-1					915016.076	ug/L		929724.105
50 Cr	102.549485	3.878			22846.774	ug/L		-103.887
53 Cr	101.870909	1.753			74586.524	ug/L		36812.316
72 Ge					915016.076	ug/L		929724.105
106 Pd	98.699049	1.332			14520.707	ug/L		6.000
83 Kr	73.333236	82.196			372.675	ug/L		358.007

**Internal Standard Recoveries**

Analyte	Mass	Int Std	% Recovery
Sc	45		
Al	27		
Ca	44		
Cr	52		
Co	59		
Ge-1	72		98.418
Cr	50		
Cr	53		
Ge	72		98.418
Pd	106		
Kr	83		

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 2**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 15:53:36

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCB 2.014

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1270386.352	ug/L	1267726.722
27 Al	0.064495	48.507	15275.990	ug/L	14905.019
44 Ca	0.805467	255.187	13230.342	ug/L	12979.286
52 Cr	0.041898	73.534	28584.952	ug/L	28106.409
59 Co	0.000782	208.300	92.334	ug/L	83.667
72 Ge-1			932122.277	ug/L	929724.105
50 Cr	-0.120475	59.978	-131.649	ug/L	-103.887
53 Cr	-0.105777	908.601	36867.217	ug/L	36812.316
72 Ge			932122.277	ug/L	929724.105
106 Pd	-0.009067	156.125	4.667	ug/L	6.000
83 Kr	28.333266	40.754	363.674	ug/L	358.007

**Internal Standard Recoveries**

Analyte Mass	Int Std % Recovery
Sc 45	
Al 27	
Ca 44	
Cr 52	
Co 59	
Ge-1 72	100.258
Cr 50	
Cr 53	
Ge 72	100.258
Pd 106	
Kr 83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JLC05C**

Sample Description: G6L130000-212 LCS

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 15:56:24

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JLC05C.015

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 101

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1252071.836	ug/L	1267726.722	
27 Al	964.887869	1.140			4914818.609	ug/L	14905.019	
44 Ca	1298.718787	1.189			356012.240	ug/L	12979.286	
52 Cr	174.002888	0.629			1687841.372	ug/L	28106.409	
59 Co	176.273775	1.530			1867831.305	ug/L	83.667	
72 Ge-1					917418.563	ug/L	929724.105	
50 Cr	173.837814	1.857			38908.813	ug/L	-103.887	
53 Cr	154.444368	1.465			94624.054	ug/L	36812.316	
72 Ge					917418.563	ug/L	929724.105	
106 Pd	185.428182	1.145			27275.115	ug/L	6.000	
83 Kr	113.333218	46.759			380.675	ug/L	358.007	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	98.676
Cr	50	
Cr	53	
Ge	72	98.676
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JLC05L**

Sample Description: G6L130000-212 LCSD

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 15:59:08

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JLC05L.016

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 102

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1199114.458	ug/L	1267726.722	
27 Al	1024.310788	1.404			5022046.771	ug/L	14905.019	
44 Ca	1351.521750	3.270			356106.573	ug/L	12979.286	
52 Cr	184.266222	3.197			1718744.047	ug/L	28106.409	
59 Co	187.754960	2.425			1915129.339	ug/L	83.667	
72 Ge-1					883273.627	ug/L	929724.105	
50 Cr	185.233444	3.480			39907.056	ug/L	-103.887	
53 Cr	167.144175	5.092			95687.208	ug/L	36812.316	
72 Ge					883273.627	ug/L	929724.105	
106 Pd	188.002103	1.487			27653.636	ug/L	6.000	
83 Kr	53.333359	246.320			368.674	ug/L	358.007	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	95.004
Cr	50	
Cr	53	
Ge	72	95.004
Pd	106	
Kr	83	

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:01:56

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\Rinse.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1236744.597	ug/L	1267726.722	
27 Al	18.938177	1.379			111108.362	ug/L	14905.019	
44 Ca	9.169891	8.073			15260.965	ug/L	12979.286	
52 Cr	-0.386295	13.778			24097.817	ug/L	28106.409	
59 Co	0.011859	4.297			208.669	ug/L	83.667	
72 Ge-1					919266.413	ug/L	929724.105	
50 Cr	0.062360	189.168			-88.814	ug/L	-103.887	
53 Cr	-33.305804	3.071			23802.673	ug/L	36812.316	
72 Ge					919266.413	ug/L	929724.105	
106 Pd	0.031733	32.733			10.667	ug/L	6.000	
83 Kr	-36.666540	175.339			350.674	ug/L	358.007	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	98.875
Cr	50	
Cr	53	
Ge	72	98.875
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JLC05B**

Sample Description: G6L130000-212 BLK

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:04:47

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JLC05B.018

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 20

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1260270.672	ug/L	1267726.722	
27 Al	3.212112	1.017			31120.579	ug/L	14905.019	
44 Ca	106.326855	1.378			41037.678	ug/L	12979.286	
52 Cr	-0.714836	4.365			20981.127	ug/L	28106.409	
59 Co	0.003558	22.574			120.668	ug/L	83.667	
72 Ge-1					920362.752	ug/L	929724.105	
50 Cr	0.585474	19.506			28.939	ug/L	-103.887	
53 Cr	-59.702824	2.137			13834.923	ug/L	36812.316	
72 Ge					920362.752	ug/L	929724.105	
106 Pd	0.009067	114.564			7.333	ug/L	6.000	
83 Kr	-89.999523	168.417			340.007	ug/L	358.007	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	98.993
Cr	50	
Cr	53	
Ge	72	98.993
Pd	106	
Kr	83	

Report Date/Time: Friday, December 22, 2006 17:06:28

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Sample ID: JLC05B

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SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXA**

Sample Description: G6L050146-1

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:07:35

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JKRXA.019

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1240540.053	ug/L	1267726.722
27 Al	161.883173	5.498		837018.203	ug/L	14905.019
44 Ca	454.525720	1.264		132998.536	ug/L	12979.286
52 Cr	1.078578	8.127		38045.897	ug/L	28106.409
59 Co	0.226486	2.579		2484.353	ug/L	83.667
72 Ge-1				917951.606	ug/L	929724.105
50 Cr	1.792339	9.302		299.586	ug/L	-103.887
53 Cr	-53.338738	3.636		16199.600	ug/L	36812.316
72 Ge				917951.606	ug/L	929724.105
106 Pd	2.613501	8.038		390.342	ug/L	6.000
83 Kr	-46.666531	64.583		348.674	ug/L	358.007

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	98.734
Cr	50	
Cr	53	
Ge	72	98.734
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXAP5**

Sample Description: G6L050146-1 5X

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:10:20

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JKRXAP5.020

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 28

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1296020.754		ug/L	1267726.722
27 Al	33.302557	1.149			188420.511		ug/L	14905.019
44 Ca	93.669993	4.164			38489.815		ug/L	12979.286
52 Cr	0.654573	13.379			34818.140		ug/L	28106.409
59 Co	0.041141	8.086			531.350		ug/L	83.667
72 Ge-1					940433.670		ug/L	929724.105
50 Cr	0.187509	21.132			-61.963		ug/L	-103.887
53 Cr	-7.611259	44.109			34269.910		ug/L	36812.316
72 Ge					940433.670		ug/L	929724.105
106 Pd	0.480531	4.549			76.667		ug/L	6.000
83 Kr	26.666612	141.973			363.341		ug/L	358.007

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	101.152
Cr	50	
Cr	53	
Ge	72	101.152
Pd	106	
Kr	83	

Report Date/Time: Friday, December 22, 2006 17:06:32

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Sample ID: JKRXAP5

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXAZ**

Sample Description: G6L050146-1 PS

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:13:06

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JKRXAZ.021

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 29

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1258447.855	ug/L	1267726.722
27 Al	1220.429321	0.810	6197720.883	ug/L	14905.019
44 Ca	1734.925276	1.135	470170.334	ug/L	12979.286
52 Cr	193.596662	0.838	1870191.301	ug/L	28106.409
59 Co	193.986304	0.271	2050592.005	ug/L	83.667
72 Ge-1			915177.171	ug/L	929724.105
50 Cr	189.321967	2.983	42273.528	ug/L	-103.887
53 Cr	176.700458	2.499	102775.789	ug/L	36812.316
72 Ge			915177.171	ug/L	929724.105
106 Pd	203.850402	1.083	29984.291	ug/L	6.000
83 Kr	93.333340	146.744	376.675	ug/L	358.007

**Internal Standard Recoveries**

Analyte Mass	Int Std % Recovery
Sc 45	
Al 27	
Ca 44	
Cr 52	
Co 59	
Ge-1 72	98.435
Cr 50	
Cr 53	
Ge 72	98.435
Pd 106	
Kr 83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXC**

Sample Description: G6L050146-2

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:15:52

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JKRXC.022

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 30

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1254170.806	ug/L	1267726.722	
27 Al	176.593203	3.972	917996.501	ug/L	14905.019	
44 Ca	535.491959	0.638	155387.249	ug/L	12979.286	
52 Cr	1.215518	2.876	39601.753	ug/L	28106.409	
59 Co	0.311504	0.849	3406.663	ug/L	83.667	
72 Ge-1			923741.838	ug/L	929724.105	
50 Cr	1.214209	32.066	170.893	ug/L	-103.887	
53 Cr	-54.493847	3.611	15866.921	ug/L	36812.316	
72 Ge			923741.838	ug/L	929724.105	
106 Pd	2.615767	1.731	390.675	ug/L	6.000	
83 Kr	56.666566	61.974	369.341	ug/L	358.007	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	99.357
Cr	50	
Cr	53	
Ge	72	99.357
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXD**

Sample Description: G6L050146-3

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:18:39

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JKRXD.023

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 31

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1268185.864		ug/L	1267726.722
27 Al	337.287497		1.313		1744834.453		ug/L	14905.019
44 Ca	655.837423		1.613		187976.422		ug/L	12979.286
52 Cr	1.390867		3.799		41416.481		ug/L	28106.409
59 Co	0.328627		3.359		3599.741		ug/L	83.667
72 Ge-1					926588.020		ug/L	929724.105
50 Cr	3.422801		6.731		671.930		ug/L	-103.887
53 Cr	-52.397278		3.777		16716.005		ug/L	36812.316
72 Ge					926588.020		ug/L	929724.105
106 Pd	3.098586		4.446		461.679		ug/L	6.000
83 Kr	66.666599		123.769		371.341		ug/L	358.007

**Internal Standard Recoveries**

Analyte	Mass	Int Std	% Recovery
Sc	45		
Al	27		
Ca	44		
Cr	52		
Co	59		
Ge-1	72		99.663
Cr	50		
Cr	53		
Ge	72		99.663
Pd	106		
Kr	83		

SOP No. SAC-MT-0001

BJones

**Sample ID: JKRXE**

Sample Description: G6L050146-4

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:21:26

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\JKRXE.024

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 32

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1291332.040	ug/L	1267726.722
27 Al	606.361610	1.273	3150075.522	ug/L	14905.019
44 Ca	1083.120458	0.192	304491.267	ug/L	12979.286
52 Cr	1.921402	2.098	46906.099	ug/L	28106.409
59 Co	0.491568	1.259	5387.659	ug/L	83.667
72 Ge-1			934083.869	ug/L	929724.105
50 Cr	5.783605	7.033	1216.418	ug/L	-103.887
53 Cr	-50.569860	3.976	17554.600	ug/L	36812.316
72 Ge			934083.869	ug/L	929724.105
106 Pd	1.808811	3.277	272.004	ug/L	6.000
83 Kr	113.333239	66.226	380.675	ug/L	358.007

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	100.469
Cr	50	
Cr	53	
Ge	72	100.469
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 3**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:24:15

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCV 3.025

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1289180.839	ug/L	1267726.722	
27 Al	5297.914411	0.305			27643476.149	ug/L	14905.019	
44 Ca	5310.011502	1.085			1454004.862	ug/L	12979.286	
52 Cr	100.937384	0.520			1017319.739	ug/L	28106.409	
59 Co	98.739267	2.076			1074361.096	ug/L	83.667	
72 Ge-1					942014.582	ug/L	929724.105	
50 Cr	101.708554	2.336			23326.120	ug/L	-103.887	
53 Cr	105.917012	1.179			78350.795	ug/L	36812.316	
72 Ge					942014.582	ug/L	929724.105	
106 Pd	100.174829	1.018			14737.735	ug/L	6.000	
83 Kr	220.000345	95.238			402.009	ug/L	358.007	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	101.322
Cr	50	
Cr	53	
Ge	72	101.322
Pd	106	
Kr	83	

**Sample ID: CCB 3**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:27:04

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCB 3.026

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1309395.154	ug/L	1267726.722
27 Al	0.196119	18.860	16373.306	ug/L	14905.019
44 Ca	2.109926	42.055	13935.424	ug/L	12979.286
52 Cr	0.387613	2.795	32774.269	ug/L	28106.409
59 Co	0.001736	86.292	105.334	ug/L	83.667
72 Ge-1			956569.616	ug/L	929724.105
50 Cr	-0.155342	70.755	-143.286	ug/L	-103.887
53 Cr	2.757878	74.032	38963.852	ug/L	36812.316
72 Ge			956569.616	ug/L	929724.105
106 Pd	0.004533	433.013	6.667	ug/L	6.000
83 Kr	-9.999930	841.133	356.007	ug/L	358.007

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	102.887
Cr	50	
Cr	53	
Ge	72	102.887
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 4**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:29:54

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCV 4.027

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1301402.401	ug/L	1267726.722	
27 Al	5312.676455	0.688			27926524.099	ug/L	14905.019	
44 Ca	5272.230218	0.231			1454589.129	ug/L	12979.286	
52 Cr	100.277892	0.393			1018337.742	ug/L	28106.409	
59 Co	98.364602	1.533			1078316.936	ug/L	83.667	
72 Ge-1					949016.712	ug/L	929724.105	
50 Cr	98.534218	1.766			22766.238	ug/L	-103.887	
53 Cr	103.838866	2.044			78123.934	ug/L	36812.316	
72 Ge					949016.712	ug/L	929724.105	
106 Pd	100.937711	1.138			14849.925	ug/L	6.000	
83 Kr	163.333345	74.062			390.675	ug/L	358.007	

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	102.075
Cr	50	
Cr	53	
Ge	72	102.075
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 4**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:32:43

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCB 4.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1307510.403	ug/L		1267726.722
27 Al	0.244711	13.535			16465.145	ug/L		14905.019
44 Ca	3.752048	47.274			14248.273	ug/L		12979.286
52 Cr	0.367113	5.028			32244.973	ug/L		28106.409
59 Co	0.002656	22.950			114.334	ug/L		83.667
72 Ge-1					947069.421	ug/L		929724.105
50 Cr	-0.196386	43.780			-151.466	ug/L		-103.887
53 Cr	1.163232	53.425			37954.141	ug/L		36812.316
72 Ge					947069.421	ug/L		929724.105
106 Pd	0.006800	300.000			7.000	ug/L		6.000
83 Kr	89.999877	44.444			376.008	ug/L		358.007

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	101.866
Cr	50	
Cr	53	
Ge	72	101.866
Pd	106	
Kr	83	

Report Date/Time: Friday, December 22, 2006 17:06:47

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Sample ID: CCB 4

G6L050146

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SOP No. SAC-MT-0001

BJones

**Sample ID: FB**

Sample Description: G6L130000-212 BLK CHK

Batch ID: 6347212

Sample Date/Time: Friday, December 22, 2006 16:35:33

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\FB.029

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 19

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1327496.797	ug/L	1267726.722
27 Al	15.438628	0.270	97763.492	ug/L	14905.019
44 Ca	281.740906	1.281	91620.914	ug/L	12979.286
52 Cr	0.910492	2.758	38239.386	ug/L	28106.409
59 Co	0.069965	3.716	865.043	ug/L	83.667
72 Ge-1			963194.993	ug/L	929724.105
50 Cr	1.542981	4.305	255.969	ug/L	-103.887
53 Cr	-55.672013	2.590	16077.301	ug/L	36812.316
72 Ge			963194.993	ug/L	929724.105
106 Pd	0.639198	22.742	100.001	ug/L	6.000
83 Kr	141.666573	43.846	386.342	ug/L	358.007

**Internal Standard Recoveries**

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	103.600
Cr	50	
Cr	53	
Ge	72	103.600
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: LLSTD1**

Sample Description: LL STD @10X

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:38:21

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\LLSTD1.030

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 9

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1325262.857	ug/L	1267726.722
27 Al	66.461433	1.975	369023.955	ug/L	14905.019
44 Ca	67.798461	1.626	32191.108	ug/L	12979.286
52 Cr	1.472372	2.513	43774.893	ug/L	28106.409
59 Co	1.025813	1.801	11474.185	ug/L	83.667
72 Ge-1			961241.999	ug/L	929724.105
50 Cr	1.404884	9.100	222.999	ug/L	-103.887
53 Cr	-1.810687	35.709	37342.458	ug/L	36812.316
72 Ge			961241.999	ug/L	929724.105
106 Pd	1.022266	5.037	156.335	ug/L	6.000
83 Kr	71.666614	135.524	372.341	ug/L	358.007

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	103.390
Cr	50	
Cr	53	
Ge	72	103.390
Pd	106	
Kr	83	

**Sample ID: LLSTD2**

Sample Description: LL STD @5X

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:41:07

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\LLSTD2.031

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1335204.416	ug/L	1267726.722
27 Al	131.208648	1.313	715748.045	ug/L	14905.019
44 Ca	131.874640	0.320	50086.278	ug/L	12979.286
52 Cr	2.365541	2.515	52865.239	ug/L	28106.409
59 Co	2.090819	1.083	23370.171	ug/L	83.667
72 Ge-1			964133.150	ug/L	929724.105
50 Cr	2.845645	16.648	563.499	ug/L	-103.887
53 Cr	-9.453834	10.159	34424.929	ug/L	36812.316
72 Ge			964133.150	ug/L	929724.105
106 Pd	2.076284	8.236	311.339	ug/L	6.000
83 Kr	-18.333172	690.674	354.341	ug/L	358.007

**Internal Standard Recoveries**

Analyte Mass	Int Std % Recovery
Sc 45	
Al 27	
Ca 44	
Cr 52	
Co 59	
Ge-1 72	103.701
Cr 50	
Cr 53	
Ge 72	103.701
Pd 106	
Kr 83	

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:43:54

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\ICSA.032

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1091746.928	ug/L	1267726.722	
27 Al	96090.461428	0.626			422661787.689	ug/L	14905.019	
44 Ca	97475.654198	1.026			22321913.424	ug/L	12979.286	
52 Cr	1.645862	3.554			37614.677	ug/L	28106.409	
59 Co	2.433583	1.017			22404.988	ug/L	83.667	
72 Ge-1					794509.253	ug/L	929724.105	
50 Cr	304.560711	2.597			59087.871	ug/L	-103.887	
53 Cr	-4.201604	18.115			30086.159	ug/L	36812.316	
72 Ge					794509.253	ug/L	929724.105	
106 Pd	0.598398	9.709			94.001	ug/L	6.000	
83 Kr	1135.012215	16.078			585.020	ug/L	358.007	

### Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	85.456
Cr	50	
Cr	53	
Ge	72	85.456
Pd	106	
Kr	83	

BJones

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:46:41

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\ICSAB.033

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1064038.956	ug/L	1267726.722	
27 Al	88016.082126	2.238			387607958.968	ug/L	14905.019	
44 Ca	91079.381750	3.341			20878061.146	ug/L	12979.286	
52 Cr	100.800802	2.543			857875.548	ug/L	28106.409	
59 Co	98.909463	2.695			908768.451	ug/L	83.667	
72 Ge-1					795765.345	ug/L	929724.105	
50 Cr	410.524871	2.714			79843.027	ug/L	-103.887	
53 Cr	86.192766	6.330			59700.919	ug/L	36812.316	
72 Ge					795765.345	ug/L	929724.105	
106 Pd	85.148518	0.161			12527.962	ug/L	6.000	
83 Kr	1121.678418	10.266			582.353	ug/L	358.007	

### Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery
Sc	45		
Al	27		
Ca	44		
Cr	52		
Co	59		
Ge-1	72	85.592	
Cr	50		
Cr	53		
Ge	72	85.592	
Pd	106		
Kr	83		

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:49:29

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\Rinse.034

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1231768.265	ug/L	1267726.722
27 Al	17.531498	0.927	107025.563	ug/L	14905.019
44 Ca	5.672442	14.159	14759.440	ug/L	12979.286
52 Cr	-0.615464	0.100	22554.700	ug/L	28106.409
59 Co	0.009928	14.585	193.669	ug/L	83.667
72 Ge-1			946462.554	ug/L	929724.105
50 Cr	0.094271	147.992	-84.086	ug/L	-103.887
53 Cr	-32.940553	5.059	24650.243	ug/L	36812.316
72 Ge			946462.554	ug/L	929724.105
106 Pd	0.024933	41.660	9.667	ug/L	6.000
83 Kr	153.333248	38.903	388.675	ug/L	358.007

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	101.800
Cr	50	
Cr	53	
Ge	72	101.800
Pd	106	
Kr	83	

BJones

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:52:19

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCV 5.035

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1274509.987	ug/L	1267726.722	
27 Al	4758.850141	1.637		24899920.328	ug/L	14905.019	
44 Ca	4900.969155	0.726		1346985.394	ug/L	12979.286	
52 Cr	98.042591	0.439		991795.705	ug/L	28106.409	
59 Co	98.061888	1.501		1070102.151	ug/L	83.667	
72 Ge-1				944720.173	ug/L	929724.105	
50 Cr	93.814166	3.407		21578.352	ug/L	-103.887	
53 Cr	95.241481	2.309		74430.190	ug/L	36812.316	
72 Ge				944720.173	ug/L	929724.105	
106.Pd	104.559264	1.497		15382.511	ug/L	6.000	
83 Kr	143.333363	98.440		386.675	ug/L	358.007	

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Al	27	
Ca	44	
Cr	52	
Co	59	
Ge-1	72	101.613
Cr	50	
Cr	53	
Ge	72	101.613
Pd	106	
Kr	83	

BJones

**Sample ID: CCB 5**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 22, 2006 16:55:09

Method File: C:\elandata\Method\6347212R2.mth

Dataset File: C:\elandata\Dataset\061222B1\CCB 5.036

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1262537.317	ug/L	1267726.722
27 Al	0.240970	34.625	16410.044	ug/L	14905.019
44 Ca	-2.323962	42.811	12562.350	ug/L	12979.286
52 Cr	-0.063137	59.812	27949.907	ug/L	28106.409
59 Co	0.002222	30.576	109.334	ug/L	83.667
L> 72 Ge-1			945091.199	ug/L	929724.105
50 Cr	0.063379	148.018	-90.854	ug/L	-103.887
53 Cr	-4.259090	18.191	35765.530	ug/L	36812.316
L> 72 Ge			945091.199	ug/L	929724.105
106 Pd	0.015867	65.465	8.333	ug/L	6.000
83 Kr	69.999894	68.139	372.008	ug/L	358.007

### Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
L> Al	27	
Ca	44	
Cr	52	
Co	59	
L> Ge-1	72	101.653
Cr	50	
Cr	53	
L> Ge	72	101.653
Pd	106	
Kr	83	

## **Sample Preparation Log**

**STL SACRAMENTO**  
**Metals - Air Toxics - Preparation Log**

Date: 13-Dec-06

Analyst: LoeraM

Matrix: AIR

Fraction: Filter

SOP:

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6L130000	212	JLC05B	2A	NA	NA	NA	150	6347212	1.2
G6L130000	212	JLC05C	2A	NA	NA	NA	150	6347212	1.2
G6L130000	212	JLC05L	2A	NA	NA	NA	150	6347212	1.2
G6L050146	1	JKRXA	2A	9	0.75	0.75	100	6347212	1.2
G6L050146	2	JKRXC	2A	9	0.75	0.75	100	6347212	1.2
G6L050146	3	JKRXD	2A	9	0.75	0.75	100	6347212	1.2
G6L050146	4	JKRXE	2A	9	0.75	0.75	100	6347212	1.2

For 1" filter: factor = 9 (9/1)  
For 0.75" filter factor = 12 (9/0.75)

Page 1 of 1  
QA-372B mlt 02/20/03

STL Sacramento  
Metals Preparation Spiking  
Documentation Form

SEVERN  
TRENT

STL

Lot # G6L050146-(1-5)

Batch Number:	<u>6347212</u>	EPA Analytical Method ID:	<u>6020</u>	Spiked Date:	<u>12/13/06</u>
MS Run #:	<u>12/13/06 mlc</u>	EPA Prep Method ID:	<u>2A</u>	Hot Plate Microwave ID:	<u>3</u>
Analyst Initial/Date:	<u>mlc/12/13/06</u>	Witness Initial/Date:	<u>12/13/06 NM</u>	Hot Plate Temp	Initial: <u>90°</u> Final: <u>90°</u>
Correct Folder ID Witness:	<u>12/13/06 ml</u>			Thermometer ID:	<u>BT012</u>

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO <sub>3</sub>	Ca, Mg Al, As, Ba, Sc, Sn, Tl Fe, Mo, Ti Sb, Co, Pb, Mn, Ni, V, Zn	5,000 200 100 50				
		Cu Cr , Be, Cd Ag	25 20 5 5.0				
	ICP Part 2 2% HNO <sub>3</sub>	K, Na	5,000				
		P, S	1,000				
		B, Li, Sr	100				
	Si H2O/Tr HF	Si	1,000				
✓	XCAL-45 5% HNO <sub>3</sub>	Al, K, Mg, Ca, Na, Fe, P, B, Si As, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Se, U, V, Zn, Ba, Li, Sn, Sr, Ti Sb, Ag, Tl	50 10 2.5	1774-mat 8-12	2.0ml		10/07
	Misc. Elements						

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO <sub>3</sub>	Mallinckrodt	<u>C16035</u>		30% H <sub>2</sub> O <sub>2</sub>	Mallinckrodt	<u>12/13/06 ml</u>
	37% HCl	Mallinckrodt			49% HF	Fisher	

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.

ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

# AIR, 9056, Sulfate

## **General Anions by IC**

*Fluoride*

*Chloride*

*Nitrite*

*Bromide*

*Nitrate*

*Phosphate*

*Sulfate*

# STL Sacramento

## LEVEL 1&2 REVIEW CHECKLIST GENERAL CHEMISTRY

LAB NUMBERS: G6L120334, G-61120375, G-6K090216 and G-6L050146

ANALYSIS: 300.0 DATE: 12/13/06 ANALYST: OS

### LEVEL 1 RUN REVIEW:

1. Samples are properly preserved and verified
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)
3. Calibration criteria met
4. Calibration verifications and second source reference are in control
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)
6. Calculations have been checked
7. QAS +/or QAPP was consulted and followed for client specifics
8. Standard Tracking # noted on benchsheet +/or runlog
9. Manual integration performed, documented and approved

YES	NO	NA
✓		
✓		
✓		
✓		
✓		
✓		
✓		
✓		
✓		

### LEVEL 1 DATA REVIEW:

1. Benchsheet complete
2. QAS +/or QAPP consulted and followed for client specifics for data entry
3. Data entered properly
4. Copy of prep sheet and prep checklist attached to run
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.

✓		
✓		
✓		
✓		
✓		

Completed By & Date: OS 12/14/06

### LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified
2. Deviations, Anomalies, Holding times checked and approved
3. Reprep/Reanalysis documented and chemist notified
4. Client specific criteria met
5. Data entry checked and released in Quantims
6. Indication on benchsheet on review and release (dated & signed)
7. Manual integration reviewed, approved, and properly documented

✓		
✓		
✓		
✓		
✓		

Completed By & Date: JDR 12/22/06

Comments:

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QA-159 NEK 7/00

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:36:41

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GA Chloride (9056, Ion Chromatography)  
 QC BATCH #: 6347641 INITIALS: \_\_\_\_\_  
 PREP DATE: 12/13/06 9:19 PREP \_\_\_\_\_  
 COMP DATE: 12/13/06 9:19 ANAL \_\_\_\_\_  
 USER: OUNIS

DATA ENTRY:  
 INITIALS \_\_\_\_\_  
 DATE \_\_\_\_\_

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JJA5G-1-AC	G-6K090216-005	XX I 88 GA 9G	M	_____	AAFBMBG25L026
JJA5G-1-AE	G-6K090216-005-D	XX I 88 GA 9G	M	_____	AAFBMBG25L026
JJA5G-1-AD	G-6K090216-005-S	XX I 88 GA 9G	M	_____	AAFBMBG25L026
JLE8H-1-AA	G-6L130000-641-B	XX I 88 GA 9G	_____	_____	INTRA-LAB BLANK
JLE8H-1-AC	G-6L130000-641-C	XX I 88 GA 9G	_____	_____	INTRA-LAB CHECK

## Control Limits

(85-115)

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.  
 Inorganics Batch Review  
 QC Batch 6347641

Date 12/14/2006  
 Time 12:29:54

## Method Code: GA Chloride (9056, Ion chromatography)

Analyst: Sonia Onni

Work Order	Result	Units	IDL/Dil	Prep	Total	PSRL	Rounded Output
JUAS5G-T-AC	7.437	mg/L	1.0	12/13/06	.00	7.4	Dil. 1.00
JLE8H-T-AA	ND	mg/L	1.0	12/13/06	.00	ND	1.00

Notes:

Check	Standard	Exception	True	Measured	Percent	Prep	Anal.	Control
Work Order	Code	Code	Spike	Spike	Recovered	12/13/06	Anal.	Limits
JLE8H-T-AC			75	75.970	101.29			(85-115)

Notes:

MS - MSD	Exception	Measured	True	Measured	Measured	Recovered	Prep	Dil.
Work Order	Code	Sample	Spike	Spike	Dup.	DUP	DUP	1.00
JUAS5G-T-AD		7.437	10	17.353	17.382	99.16	99.45	.16

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION QC #	TOTALS MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:39:20

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: C8 Fluoride (300.0A, Ion Chromatography)

QC BATCH #: 6347644

INITIALS: \_\_\_\_\_

DATA ENTRY: \_\_\_\_\_

PREP DATE: 12/13/06 9:19

PREP \_\_\_\_\_

INITIALS \_\_\_\_\_

COMP DATE: 12/13/06 9:19

ANAL \_\_\_\_\_

DATE \_\_\_\_\_

USER: OUNIS

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JLA38-1-A1	G-6L120334-002	XX I 88 C8 01	M	_____	MMW-2A-010
JLA4D-1-AC	G-6L120334-003	XX I 88 C8 01	M	_____	MMW-1A-010
JLA4L-1-AC	G-6L120334-006	XX I 88 C8 01	M	_____	MMW-7A-010
JLA4V-1-AC	G-6L120334-007	XX I 88 C8 01	M	_____	MIW-05-010
JLA5E-1-A0	G-6L120334-017	XX I 88 C8 01	M	_____	MMW-2B-010
JLA5E-1-A9	G-6L120334-017-D	XX I 88 C8 01	M	_____	MMW-2B-010
JLA5E-1-A8	G-6L120334-017-S	XX I 88 C8 01	M	_____	MMW-2B-010
JLA5G-1-AC	G-6L120334-018	XX I 88 C8 01	M	_____	MMW-8A-010
JLA6G-1-AC	G-6L120334-023	XX I 88 C8 01	M	_____	MIW-04-010
JLA6M-1-AC	G-6L120334-024	XX I 88 C8 01	M	_____	MIW-03-010
JLA7G-1-AF	G-6L120334-026	XX I 88 C8 01	M	_____	MIW-01-010
JLE8R-1-AA	G-6L130000-644-B	XX I 88 C8 01	_____	_____	INTRA-LAB BLANK
JLE8R-1-AC	G-6L130000-644-C	XX I 88 C8 01	_____	_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:38:41

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: CX Chloride (300.0A, Ion Chromatography)

QC BATCH #: 6347643

INITIALS: \_\_\_\_\_

DATA ENTRY: \_\_\_\_\_

PREP DATE: 12/13/06 9:19

PREP \_\_\_\_\_

INITIALS \_\_\_\_\_

COMP DATE: 12/13/06 9:19

ANAL \_\_\_\_\_

DATE \_\_\_\_\_

USER: OUNIS

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JLA38-1-A0	G-6L120334-002	XX I 88 CX 01	M	_____	MMW-2A-010
JLA4D-1-AA	G-6L120334-003	XX I 88 CX 01	M	_____	MMW-1A-010
JLA4L-1-AA	G-6L120334-006	XX I 88 CX 01	M	_____	MMW-7A-010
JLA4V-1-AA	G-6L120334-007	XX I 88 CX 01	M	_____	MIW-05-010
JLA5E-1-AX	G-6L120334-017	XX I 88 CX 01	M	_____	MMW-2B-010
JLA5E-1-A7	G-6L120334-017-D	XX I 88 CX 01	M	_____	MMW-2B-010
JLA5E-1-A6	G-6L120334-017-S	XX I 88 CX 01	M	_____	MMW-2B-010
JLA5G-1-AA	G-6L120334-018	XX I 88 CX 01	M	_____	MMW-8A-010
JLA6G-1-AA	G-6L120334-023	XX I 88 CX 01	M	_____	MIW-04-010
JLA6M-1-AA	G-6L120334-024	XX I 88 CX 01	M	_____	MIW-03-010
JLA7G-1-AE	G-6L120334-026	XX I 88 CX 01	M	_____	MIW-01-010
JLE8L-1-AA	G-6L130000-643-B	XX I 88 CX 01	_____	_____	INTRA-LAB BLANK
JLE8L-1-AC	G-6L130000-643-C	XX I 88 CX 01	_____	_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:41:53

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GO Nitrite as N (300.0A, Ion Chromatography)  
 QC BATCH #: 6347645  
 PREP DATE: 12/13/06 9:19  
 COMP DATE: 12/13/06 9:19  
 USER: OUNIS

INITIALS: \_\_\_\_\_

DATA ENTRY: \_\_\_\_\_

PREP \_\_\_\_\_

INITIALS \_\_\_\_\_

ANAL \_\_\_\_\_

DATE \_\_\_\_\_

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JLA38-1-A3	G-6L120334-002	XX I 88 GO 01	M	_____	MMW-2A-010
JLA4D-1-AE	G-6L120334-003	XX I 88 GO 01	M	_____	MMW-1A-010
JLA4L-1-AE	G-6L120334-006	XX I 88 GO 01	M	_____	MMW-7A-010
JLA4V-1-AE	G-6L120334-007	XX I 88 GO 01	M	_____	MIW-05-010
JLA5E-1-A2	G-6L120334-017	XX I 88 GO 01	M	_____	MMW-2B-010
JLA5E-1-CC	G-6L120334-017-D	XX I 88 GO 01	M	_____	MMW-2B-010
JLA5E-1-CA	G-6L120334-017-S	XX I 88 GO 01	M	_____	MMW-2B-010
JLA5G-1-AE	G-6L120334-018	XX I 88 GO 01	M	_____	MMW-8A-010
JLA6G-1-AE	G-6L120334-023	XX I 88 GO 01	M	_____	MIW-04-010
JLA6M-1-AE	G-6L120334-024	XX I 88 GO 01	M	_____	MIW-03-010
JLA7G-1-AH	G-6L120334-026	XX I 88 GO 01	M	_____	MIW-01-010
JLE9G-1-AA	G-6L130000-645-B	XX I 88 GO 01	_____	_____	INTRA-LAB BLANK
JLE9G-1-AC	G-6L130000-645-C	XX I 88 GO 01	_____	_____	INTRA-LAB CHECK

## Control Limits

(90-110)

(90-110)

(90-110)

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:46:49

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GM Bromide (300.0A, Ion Chromatography)

QC BATCH #: 6347642

PREP DATE: 12/13/06 9:19

COMP DATE: 12/13/06 9:19

USER: OUNIS

INITIALS: \_\_\_\_\_

PREP \_\_\_\_\_

ANAL \_\_\_\_\_

DATA ENTRY:

INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JLA38-1-AX	G-6L120334-002	XX I 88 GM 01	M	_____	MMW-2A-010
JLA4D-1-A4	G-6L120334-003	XX I 88 GM 01	M	_____	MMW-1A-010
JLA4L-1-A4	G-6L120334-006	XX I 88 GM 01	M	_____	MMW-7A-010
JLA4V-1-A4	G-6L120334-007	XX I 88 GM 01	M	_____	MIW-05-010
JLA5E-1-AW	G-6L120334-017	XX I 88 GM 01	M	_____	MMW-2B-010
JLA5E-1-CG	G-6L120334-017-D	XX I 88 GM 01	M	_____	MMW-2B-010
JLA5E-1-CF	G-6L120334-017-S	XX I 88 GM 01	M	_____	MMW-2B-010
JLA5G-1-A4	G-6L120334-018	XX I 88 GM 01	M	_____	MMW-8A-010
JLA6G-1-A4	G-6L120334-023	XX I 88 GM 01	M	_____	MIW-04-010
JLA6M-1-A4	G-6L120334-024	XX I 88 GM 01	M	_____	MIW-03-010
JLA7G-1-AD	G-6L120334-026	XX I 88 GM 01	M	_____	MIW-01-010
JLE92-1-AA	G-6L130000-642-B	XX I 88 GM 01	_____	_____	INTRA-LAB BLANK
JLE92-1-AC	G-6L130000-642-C	XX I 88 GM 01	_____	_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:35:42

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: C9 Nitrate as N (300.0A, Ion Chromatography)

QC BATCH #: 6347639

INITIALS: \_\_\_\_\_

DATA ENTRY: \_\_\_\_\_

PREP DATE: 12/13/06 9:19

PREP \_\_\_\_\_

INITIALS \_\_\_\_\_

COMP DATE: 12/13/06 9:19

ANAL \_\_\_\_\_

DATE \_\_\_\_\_

USER: OUNIS

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JLA38-1-A2	G-6L120334-002	XX I 88 C9 01	M	_____	MMW-2A-010
JLA4D-1-AD	G-6L120334-003	XX I 88 C9 01	M	_____	MMW-1A-010
JLA4L-1-AD	G-6L120334-006	XX I 88 C9 01	M	_____	MMW-7A-010
JLA4V-1-AD	G-6L120334-007	XX I 88 C9 01	M	_____	MIW-05-010
JLA5E-1-A1	G-6L120334-017	XX I 88 C9 01	M	_____	MMW-2B-010
JLA5E-1-A5	G-6L120334-017-D	XX I 88 C9 01	M	_____	MMW-2B-010
JLA5E-1-A4	G-6L120334-017-S	XX I 88 C9 01	M	_____	MMW-2B-010
JLA5G-1-AD	G-6L120334-018	XX I 88 C9 01	M	_____	MMW-8A-010
JLA6G-1-AD	G-6L120334-023	XX I 88 C9 01	M	_____	MIW-04-010
JLA6M-1-AD	G-6L120334-024	XX I 88 C9 01	M	_____	MIW-03-010
JLA7G-1-AG	G-6L120334-026	XX I 88 C9 01	M	_____	MIW-01-010
JLCFG-1-AA	G-6L120375-001	XX I 88 C9 01	M	_____	PIT SUPPLY WATER
JLCFN-1-AA	G-6L120375-002	XX I 88 C9 01	M	_____	SHOP WELL
JLCFP-1-AA	G-6L120375-003	XX I 88 C9 01	M	_____	DISCHARGE POND
JLCFQ-1-AA	G-6L120375-004	XX I 88 C9 01	M	_____	SCALEHOUSE WELL
JLCFR-1-AA	G-6L120375-005	XX I 88 C9 01	M	_____	PORTAL
JLCFT-1-AA	G-6L120375-006	XX I 88 C9 01	M	_____	DOWN RIVER
JLCFV-1-AA	G-6L120375-007	XX I 88 C9 01	M	_____	UP RIVER
JLE8C-1-AA	G-6L130000-639-B	XX I 88 C9 01	_____	_____	INTRA-LAB BLANK

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:35:42

## STL Sacramento

QC BATCH #: **6347639** INITIALS: \_\_\_\_\_ DATA ENTRY: \_\_\_\_\_  
PREP DATE: 12/13/06 9:19 PREP \_\_\_\_\_ INITIALS \_\_\_\_\_  
COMP DATE: 12/13/06 9:19 ANAL \_\_\_\_\_ DATE \_\_\_\_\_  
USER: OUNIS

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JLE8C-1-AC	G-6L130000-639-C	XX I 88 C9 01			INTRALAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 16:42:36

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: CY Sulfate (300.0A, Ion Chromatography)

QC BATCH #: 6347646

PREP DATE: 12/13/06 9:19

COMP DATE: 12/13/06 9:19

USER: OUNIS

INITIALS:

PREP \_\_\_\_\_

ANAL \_\_\_\_\_

DATA ENTRY:

INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JLA38-1-A4	G-6L120334-002	XX I 88 CY 01	M	_____	MMW-2A-010
JLA4D-1-AF	G-6L120334-003	XX I 88 CY 01	M	_____	MMW-1A-010
JLA4L-1-AF	G-6L120334-006	XX I 88 CY 01	M	_____	MMW-7A-010
JLA4V-1-AF	G-6L120334-007	XX I 88 CY 01	M	_____	MIW-05-010
JLA5E-1-A3	G-6L120334-017	XX I 88 CY 01	M	_____	MMW-2B-010
JLA5E-1-CE	G-6L120334-017-D	XX I 88 CY 01	M	_____	MMW-2B-010
JLA5E-1-CD	G-6L120334-017-S	XX I 88 CY 01	M	_____	MMW-2B-010
JLA5G-1-AF	G-6L120334-018	XX I 88 CY 01	M	_____	MMW-8A-010
JLA6G-1-AF	G-6L120334-023	XX I 88 CY 01	M	_____	MIW-04-010
JLA6M-1-AF	G-6L120334-024	XX I 88 CY 01	M	_____	MIW-03-010
JLA7G-1-AJ	G-6L120334-026	XX I 88 CY 01	M	_____	MIW-01-010
JLCFG-1-AC	G-6L120375-001	XX I 88 CY 01	M	_____	PIT SUPPLY WATER
JLCFN-1-AC	G-6L120375-002	XX I 88 CY 01	M	_____	SHOP WELL
JLCFP-1-AC	G-6L120375-003	XX I 88 CY 01	M	_____	DISCHARGE POND
JLCFQ-1-AC	G-6L120375-004	XX I 88 CY 01	M	_____	SCALEHOUSE WELL
JLE9K-1-AA	G-6L130000-646-B	XX I 88 CY 01	_____	_____	INTRA-LAB BLANK
JLE9K-1-AC	G-6L130000-646-C	XX I 88 CY 01	_____	_____	INTRA-LAB CHECK

## Control Limits

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/13/06  
Time: 17:29:59

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GK Sulfate (9056, Ion Chromatography)

QC BATCH #: 6347658

PREP DATE: 12/13/06 15:00

COMP DATE: 12/13/06 16:00

USER: OUNIS

INITIALS: \_\_\_\_\_

PREP \_\_\_\_\_

ANAL \_\_\_\_\_

DATA ENTRY: \_\_\_\_\_

INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JKRXA-1-AL	G-6L050146-001	XX S 82 GK YM	Y-D	_____	P-0809
JKRXC-1-AL	G-6L050146-002	XX S 82 GK YM	Y-D	_____	P-0810
JKRXD-1-AL	G-6L050146-003	XX S 82 GK YM	Y-D	_____	P-0811
JKRXE-1-AL	G-6L050146-004	XX S 82 GK YM	Y-D	_____	000579
JLFDJ-1-AA	G-6L130000-658-B	XX S 82 GK YM	_____	_____	INTRA-LAB BLANK
JLFDJ-1-AC	G-6L130000-658-C	XX S 82 GK YM	_____	_____	INTRA-LAB CHECK
JLFDJ-1-AD	G-6L130000-658-L	XX S 82 GK YM	_____	_____	INTRA-LAB CHECK

Control Limits

(85-115)

(85-115)

Sequence: 061213A  
 Operator: ounis  
 Title: AS14A 013004  
 Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Method 300-a  
 Page 1 of 8  
 Printed: 12/14/2006 2:17:41 PM  
 SONIA ounis  
 12/13/06

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate
1	1R	1.0000	Standard	0.522	0.990	n.a.	0.482	0.049	0.201
2	2R	1.0000	Standard	2.314	4.744	0.495	2.527	0.506	2.438
3	3R	1.0000	Standard	4.943	9.678	1.003	4.995	0.993	4.944
4	4R	1.0000	Standard	10.081	20.010	1.990	10.100	2.018	10.127
5	5R	1.0000	Standard	25.258	50.852	5.021	24.842	4.976	25.004
6	6R	1.0000	Standard	49.879	99.682	9.992	50.054	10.008	49.985
7	BLANK	1.0000	Unknown	n.a.	2.020	n.a.	n.a.	n.a.	n.a.
8	ICV	1.0000	Unknown	30.494	75.970	7.530	30.022	7.477	29.846
9	ICB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	JLA38 10X G6L120334-2	10.0000	Unknown	n.a.	n.a.	19.155	1.320	13.917	n.a.
11	JLA4D 1X G6L120334-3	1.0000	Unknown	n.a.	44.668	n.a.	n.a.	9.860	n.a.
12	JLA4L 2X G6L120334-6	2.0000	Unknown	n.a.	21.066	1.666	13.704	0.275	23.658
13	JLA4V 5X G6L120334-7	5.0000	Unknown	n.a.	66.804	119.839	6.950	n.a.	34.151
14	JLA5E 1X G6L120334-17	1.0000	Unknown	n.a.	30.259	n.a.	n.a.	4.612	n.a.
15	JLA5G 1X G6L120334-18	1.0000	Unknown	0.098	29.893	n.a.	n.a.	4.582	n.a.
16	JLA6G 5X G6L120334-23	5.0000	Unknown	1.320	7.336	2.556	n.a.	n.a.	5.008
17	JLA6M 20X G6L120334-24	20.0000	Unknown	2.473	18.155	n.a.	n.a.	n.a.	18.174
18	JLA7G 20X G6L120334-26	20.0000	Unknown	n.a.	6.789	1.176	21.663	n.a.	7.098
19	JLA4L 20X G6L120334-6*	1.0000	Unknown	n.a.	1.043	0.103	n.a.	n.a.	n.a.
20	CCV	1.0000	Unknown	24.944	50.352	4.993	24.850	4.971	24.931
21	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
22	JLA38 100X G6L120334-2	100.0000	Unknown	n.a.	31.528	n.a.	n.a.	n.a.	29.771
23	JLA4L 100X G6L120334-6	100.0000	Unknown	n.a.	30.515	n.a.	n.a.	n.a.	28.154
24	JLA4V 100X G6L120334-7	100.0000	Unknown	n.a.	368.863	n.a.	n.a.	n.a.	49.878
25	JLA38 1000X G6L120334-2*	1000.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
26	JLA38 S 100X G6L120334-2*	100.0000	Unknown	805.061	44.961	n.a.	n.a.	n.a.	n.a.
27	JLA6G 100X G6L120334-23	100.0000	Unknown	n.a.	28.237	n.a.	584.093	n.a.	n.a.
28	JLA6M 100X G6L120334-24	100.0000	Unknown	n.a.	28.492	n.a.	n.a.	n.a.	25.400
29	JLA7G 100X G6L120334-26	100.0000	Unknown	n.a.	20.435	n.a.	49.157	n.a.	17.400
30	JLCFG 1X G6L120375-1	1.0000	Unknown	0.105	49.628	n.a.	0.253	1.785	n.a.
31	JLCFN 1X G6L120375-2	1.0000	Unknown	0.140	375.069	n.a.	1.234	1.201	n.a.
32	CCV	1.0000	Unknown	24.832	50.463	5.006	24.854	4.980	24.940
33	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
34	JLA5E S 1X G6L120334-17	1.0000	Unknown	4.677	40.756	1.916	2.105	6.708	n.a.
35	JLA5E D 1X G6L120334-17	1.0000	Unknown	4.667	40.867	1.910	2.156	6.726	n.a.
36	JLCFP 1X G6L120375-3	1.0000	Unknown	0.127	117.095	n.a.	1.996	1.717	n.a.
37	JLCFQ 1X G6L120375-4	1.0000	Unknown	n.a.	12.300	n.a.	n.a.	0.086	n.a.
38	JLCFR 1X G6L120375-5	1.0000	Unknown	0.190	63.484	n.a.	0.614	2.886	n.a.
39	JLCFT 1X G6L120375-6	1.0000	Unknown	n.a.	1.676	n.a.	n.a.	n.a.	n.a.
40	JLCFV 1X G6L120375-7	1.0000	Unknown	n.a.	1.243	n.a.	n.a.	n.a.	n.a.

Method 300-a ; reporting F, CL, Br, NO<sub>2</sub>, NO<sub>3</sub> anal

So<sub>4</sub>

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	SO4 [ppm] Sulfate	Status	Program
1	1R	1.007	Finished	AS14A PROGRAM
2	2R	4.987	Finished	AS14A PROGRAM
3	3R	9.960	Finished	AS14A PROGRAM
4	4R	20.131	Finished	AS14A PROGRAM
5	5R	49.882	Finished	AS14A PROGRAM
6	6R	100.034	Finished	AS14A PROGRAM
7	BLANK	n.a.	Finished	AS14A PROGRAM
8	ICV	74.997	Finished	AS14A PROGRAM
9	ICB	n.a.	Finished	AS14A PROGRAM
10	JLA38 10X G6L120334-2	43.987	Finished	AS14A PROGRAM
11	JLA4D 1X G6L120334-3	32.820	Finished	AS14A PROGRAM
12	JLA4L 2X G6L120334-6	44.939	Finished	AS14A PROGRAM
13	JLA4V 5X G6L120334-7	46.806	Finished	AS14A PROGRAM
14	JLA5E 1X G6L120334-17	27.904	Finished	AS14A PROGRAM
15	JLA5G 1X G6L120334-18	27.936	Finished	AS14A PROGRAM
16	JLA6G 5X G6L120334-23	32.386	Finished	AS14A PROGRAM
17	JLA6M 20X G6L120334-24	31.753	Finished	AS14A PROGRAM
18	JLA7G 20X G6L120334-26	10.256	Finished	AS14A PROGRAM
19	JLA4L 20X G6L120334-6	n.a.	Finished	AS14A PROGRAM
20	CCV	49.833	Finished	AS14A PROGRAM
21	CCB	n.a.	Finished	AS14A PROGRAM
22	JLA38 100X G6L120334-2	51.840	Finished	AS14A PROGRAM
23	JLA4L 100X G6L120334-6	54.665	Finished	AS14A PROGRAM
24	JLA4V 100X G6L120334-7	65.610	Finished	AS14A PROGRAM
25	JLA38 1000X G6L120334-2	n.a.	Finished	AS14A PROGRAM
26	JLA38 S 100X G6L120334-2	n.a.	Finished	AS14A PROGRAM
27	JLA6G 100X G6L120334-23	32.047	Finished	AS14A PROGRAM
28	JLA6M 100X G6L120334-24	40.056	Finished	AS14A PROGRAM
29	JLA7G 100X G6L120334-26	25.404	Finished	AS14A PROGRAM
30	JLCFG 1X G6L120375-1	53.296	Finished	AS14A PROGRAM
31	JLCFN 1X G6L120375-2	206.822	Finished	AS14A PROGRAM
32	CCV	49.937	Finished	AS14A PROGRAM
33	CCB	n.a.	Finished	AS14A PROGRAM
34	JLA5E S 1X G6L120334-17	38.440	Finished	AS14A PROGRAM
35	JLA5E D 1X G6L120334-17	38.487	Finished	AS14A PROGRAM
36	JLCFP 1X G6L120375-3	137.334	Finished	AS14A PROGRAM
37	JLCFQ 1X G6L120375-4	13.065	Finished	AS14A PROGRAM
38	JLCFR 1X G6L120375-5	103.908	Finished	AS14A PROGRAM
39	JLCFT 1X G6L120375-6	2.423	Finished	AS14A PROGRAM
40	JLCFV 1X G6L120375-7	2.007	Finished	AS14A PROGRAM

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004  
 Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Method	Inj. Date/Time	Inj. Vol.	Sample ID
1	1R	AS14A METHODHIGH 8PTCURVE	12/1/2006 1:54:46 PM	100.0	2724-WC-39-3
2	2R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:10:16 PM	100.0	2724-WC-39-7
3	3R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:25:46 PM	100.0	2724-WC-40-1
4	4R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:41:16 PM	100.0	2724-WC-40-4
5	5R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:56:46 PM	100.0	2724-WC-40-7
6	6R	AS14A METHODHIGH 8PTCURVE	12/1/2006 3:12:16 PM	100.0	2724-WC-40-10
7	BLANK	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:03:39 AM	100.0	
8	ICV	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:19:10 AM	100.0	2724-WC-12-5
9	ICB	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:34:40 AM	100.0	
10	JLA38 10X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:50:10 AM	100.0	
11	JLA4D 1X G6L120334-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:05:40 AM	100.0	
12	JLA4L 2X G6L120334-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:21:10 AM	100.0	
13	JLA4V 5X G6L120334-7	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:36:41 AM	100.0	
14	JLA5E 1X G6L120334-17	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:52:11 AM	100.0	
15	JLA5G 1X G6L120334-18	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:07:41 AM	100.0	
16	JLA6G 5X G6L120334-23	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:23:11 AM	100.0	
17	JLA6M 20X G6L120334-24	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:38:41 AM	100.0	
18	JLA7G 20X G6L120334-26	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:54:11 AM	100.0	
19	JLA4L 20X G6L120334-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:09:41 PM	100.0	
20	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:25:11 PM	100.0	2724-WC-40-7
21	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:40:41 PM	100.0	
22	JLA38 100X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:56:11 PM	100.0	
23	JLA4L 100X G6L120334-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:11:42 PM	100.0	
24	JLA4V 100X G6L120334-7	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:27:12 PM	100.0	
25	JLA38 1000X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:42:42 PM	100.0	
26	JLA38 S 100X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:58:12 PM	100.0	2627-WC-56-2
27	JLA6G 100X G6L120334-23	AS14A METHODHIGH 8PTCURVE	12/13/2006 2:19:57 PM	100.0	
28	JLA6M 100X G6L120334-24	AS14A METHODHIGH 8PTCURVE	12/13/2006 2:35:27 PM	100.0	
29	JLA7G 100X G6L120334-26	AS14A METHODHIGH 8PTCURVE	12/13/2006 2:50:57 PM	100.0	
30	JLCFG 1X G6L120375-1	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:06:27 PM	100.0	
31	JLCFN 1X G6L120375-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:21:57 PM	100.0	
32	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:37:27 PM	100.0	2724-WC-40-7
33	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:52:57 PM	100.0	
34	JLA5E S 1X G6L120334-17	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:08:27 PM	100.0	
35	JLA5E D 1X G6L120334-17	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:23:57 PM	100.0	
36	JLCFP 1X G6L120375-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:39:28 PM	100.0	
37	JLCFQ 1X G6L120375-4	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:54:58 PM	100.0	
38	JLCFR 1X G6L120375-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:10:28 PM	100.0	
39	JLCFT 1X G6L120375-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:25:58 PM	100.0	
40	JLCFV 1X G6L120375-7	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:41:28 PM	100.0	

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Comment	Weight
1	1R	OUNI SONIA	1.0000
2	2R	OUNI SONIA	1.0000
3	3R	OUNI SONIA	1.0000
4	4R	OUNI SONIA	1.0000
5	5R	OUNI SONIA	1.0000
6	6R	OUNI SONIA	1.0000
7	BLANK	OUNI SONIA	1.0000
8	ICV	OUNI SONIA	1.0000
9	ICB	OUNI SONIA	1.0000
10	JLA38 10X G6L120334-2	OUNI SONIA	1.0000
11	JLA4D 1X G6L120334-3	OUNI SONIA	1.0000
12	JLA4L 2X G6L120334-6	OUNI SONIA	1.0000
13	JLA4V 5X G6L120334-7	OUNI SONIA	1.0000
14	JLA5E 1X G6L120334-17	OUNI SONIA	1.0000
15	JLA5G 1X G6L120334-18	OUNI SONIA	1.0000
16	JLA6G 5X G6L120334-23	OUNI SONIA	1.0000
17	JLA6M 20X G6L120334-24	OUNI SONIA	1.0000
18	JLA7G 20X G6L120334-26	OUNI SONIA	1.0000
19	JLA4L 20X G6L120334-6	OUNI SONIA	1.0000
20	CCV	OUNI SONIA	1.0000
21	CCB	OUNI SONIA	1.0000
22	JLA38 100X G6L120334-2	OUNI SONIA	1.0000
23	JLA4L 100X G6L120334-6	OUNI SONIA	1.0000
24	JLA4V 100X G6L120334-7	OUNI SONIA	1.0000
25	JLA38 1000X G6L120334-2	OUNI SONIA	1.0000
26	JLA38 S 100X G6L120334-2	OUNI SONIA	1.0000
27	JLA6G 100X G6L120334-23	OUNI SONIA	1.0000
28	JLA6M 100X G6L120334-24	OUNI SONIA	1.0000
29	JLA7G 100X G6L120334-26	OUNI SONIA	1.0000
30	JLCFG 1X G6L120375-1	OUNI SONIA	1.0000
31	JLCFN 1X G6L120375-2	OUNI SONIA	1.0000
32	CCV	OUNI SONIA	1.0000
33	CCB	OUNI SONIA	1.0000
34	JLA5E S 1X G6L120334-17	OUNI SONIA	1.0000
35	JLA5E D 1X G6L120334-17	OUNI SONIA	1.0000
36	JLCFP 1X G6L120375-3	OUNI SONIA	1.0000
37	JLCFQ 1X G6L120375-4	OUNI SONIA	1.0000
38	JLCFR 1X G6L120375-5	OUNI SONIA	1.0000
39	JLCFT 1X G6L120375-6	OUNI SONIA	1.0000
40	JLCFV 1X G6L120375-7	OUNI SONIA	1.0000

Sequence: 061213A  
 Operator:ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate
41	JJA5G 1X G6K090216-5	1.0000	Unknown	n.a.	7.437	n.a.	n.a.	0.180	n.a.
42	JJA5G S 1X G6K090216-5	1.0000	Unknown	n.a.	17.353	n.a.	n.a.	0.174	n.a.
43	JJA5G D 1X G6K090216-5	1.0000	Unknown	n.a.	17.382	n.a.	n.a.	0.173	n.a.
44	CCV	1.0000	Unknown	24.871	50.535	5.003	24.825	4.981	24.860
45	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
46	JKRXA 1X G6L050146-1	1.0000	Unknown	0.105	0.230	n.a.	n.a.	0.546	0.574
47	JKRXC 1X G6L050146-2	1.0000	Unknown	0.115	0.373	n.a.	n.a.	0.564	0.837
48	JKRXD 1X G6L050146-3	1.0000	Unknown	0.118	0.831	n.a.	n.a.	0.587	0.579
49	JKRXE 1X G6L050146-4	1.0000	Unknown	0.142	0.645	n.a.	n.a.	0.740	0.681
50	MB (G6L050146)	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	0.419
51	LCS (G6L050146)	1.0000	Unknown	4.818	9.508	0.999	4.969	0.996	5.138
52	DCS (G6L050146)	1.0000	Unknown	4.895	9.539	1.013	4.983	1.008	5.203
53	JLCFN 5X G6L120375-2	5.0000	Unknown	n.a.	556.542	n.a.	1.553	1.241	n.a.
54	JLCFP 2X G6L120375-3	2.0000	Unknown	n.a.	127.041	n.a.	1.985	1.785	n.a.
55	JLCFQ 5X G6L120375-4	5.0000	Unknown	n.a.	12.539	n.a.	n.a.	n.a.	n.a.
56	CCV	1.0000	Unknown	24.793	50.571	5.008	24.868	4.984	24.934
57	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
58	SHUTDOWN	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum			1051.985	2725.602	178.538	933.749	94.376	495.905

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	SO4 [ppm] Sulfate	Status	Program
41	JJA5G 1X G6K090216-5	3.728	Finished	AS14A PROGRAM
42	JJA5G S 1X G6K090216-5	3.650	Finished	AS14A PROGRAM
43	JJA5G D 1X G6K090216-5	3.682	Finished	AS14A PROGRAM
44	CCV	49.844	Finished	AS14A PROGRAM
45	CCB	n.a.	Finished	AS14A PROGRAM
46	JKRXA 1X G6L050146-1	0.861	Finished	AS14A PROGRAM
47	JKRXC 1X G6L050146-2	1.131	Finished	AS14A PROGRAM
48	JKRXD 1X G6L050146-3	1.253	Finished	AS14A PROGRAM
49	JKRXE 1X G6L050146-4	3.499	Finished	AS14A PROGRAM
50	MB (G6L050146)	0.151	Finished	AS14A PROGRAM
51	LCS (G6L050146)	9.916	Finished	AS14A PROGRAM
52	DCS (G6L050146)	9.831	Finished	AS14A PROGRAM
53	JLCFN 5X G6L120375-2	220.771	Finished	AS14A PROGRAM
54	JLCFP 2X G6L120375-3	144.611	Finished	AS14A PROGRAM
55	JLCFQ 5X G6L120375-4	13.129	Finished	AS14A PROGRAM
56	CCV	50.006	Finished	AS14A PROGRAM
57	CCB	n.a.	Finished	AS14A PROGRAM
58	SHUTDOWN	n.a.	Finished	ICS1000 SHUTDOWN PROGRAM
	Sum	2041.025		

Sequence: 061213A  
Operator: ounis

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Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
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No.	Name	Method	Inj. Date/Time	Inj. Vol.	Sample ID
41	JJA5G 1X G6K090216-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:56:58 PM	100.0	
42	JJA5G S 1X G6K090216-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:12:28 PM	100.0	2627-WC-34-5
43	JJA5G D 1X G6K090216-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:27:58 PM	100.0	2627-WC-34-5
44	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:43:29 PM	100.0	2724-WC-40-7
45	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:58:59 PM	100.0	
46	JKRXA 1X G6L050146-1	AS14A METHODHIGH 8PTCURVE	12/13/2006 7:14:29 PM	100.0	
47	JKRXC 1X G6L050146-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 7:29:59 PM	100.0	
48	JKRXD 1X G6L050146-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 7:45:29 PM	100.0	
49	JKRXE 1X G6L050146-4	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:00:59 PM	100.0	
50	MB (G6L050146)	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:16:30 PM	100.0	
51	LCS (G6L050146)	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:32:00 PM	100.0	2724-WC-40-10
52	DCS (G6L050146)	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:47:30 PM	100.0	2724-WC-40-10
53	JLCFN 5X G6L120375-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:03:00 PM	100.0	
54	JLCFP 2X G6L120375-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:18:31 PM	100.0	
55	JLCFQ 5X G6L120375-4	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:34:01 PM	100.0	
56	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:49:31 PM	100.0	2724-WC-40-7
57	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:05:01 PM	100.0	
58	SHUTDOWN	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:20:32 PM	100.0	
	Sum				

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
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No.	Name	Comment	Weight
41	JJA5G 1X G6K090216-5	OUNI SONIA	1.0000
42	JJA5G S 1X G6K090216-5	OUNI SONIA	1.0000
43	JJA5G D 1X G6K090216-5	OUNI SONIA	1.0000
44	CCV	OUNI SONIA	1.0000
45	CCB	OUNI SONIA	1.0000
46	JKRXA 1X G6L050146-1	OUNI SONIA	1.0000
47	JKRXC 1X G6L050146-2	OUNI SONIA	1.0000
48	JKRXD 1X G6L050146-3	OUNI SONIA	1.0000
49	JKRXE 1X G6L050146-4	OUNI SONIA	1.0000
50	MB (G6L050146)	OUNI SONIA	1.0000
51	LCS (G6L050146)	OUNI SONIA	1.0000
52	DCS (G6L050146)	OUNI SONIA	1.0000
53	JLCFN 5X G6L120375-2	OUNI SONIA	1.0000
54	JLCFP 2X G6L120375-3	OUNI SONIA	1.0000
55	JLCFQ 5X G6L120375-4	OUNI SONIA	1.0000
56	CCV	OUNI SONIA	1.0000
57	CCB	OUNI SONIA	1.0000
58	SHUTDOWN	OUNI SONIA	1.0000
	Sum		

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
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No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate
1	1R	1.0000	Standard	0.522	0.990	0.050	0.482	0.049	0.201
2	2R	1.0000	Standard	2.314	4.744	0.495	2.527	0.506	2.438
3	3R	1.0000	Standard	4.943	9.678	1.003	4.995	0.993	4.944
4	4R	1.0000	Standard	10.081	20.010	1.990	10.100	2.018	10.127
5	5R	1.0000	Standard	25.258	50.852	5.021	24.842	4.976	25.004
6	6R	1.0000	Standard	49.879	99.682	9.992	50.054	10.008	49.985
7	BLANK	1.0000	Unknown	n.a.	2.020	n.a.	n.a.	n.a.	n.a.
8	ICV	1.0000	Unknown	30.494	75.970	7.530	30.022	7.477	29.846
9	ICB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	JLA38 10X G6L120334-2	10.0000	Unknown	n.a.	19.155	1.319	13.917	n.a.	21.574
11	JLA4D 1X G6L120334-3 N/2	1.0000	Unknown	n.a.	44.668	n.a.	n.a.	9.860	n.a.
12	JLA4L 2X G6L120334-6	2.0000	Unknown	n.a.	21.066	1.666	13.704	0.275	23.658
13	JLA4V 5X G6L120334-7	5.0000	Unknown	n.a.	66.804	119.832	6.950	n.a.	34.151
14	JLA5E 1X G6L120334-17 N/2	1.0000	Unknown	n.a.	30.259	n.a.	n.a.	4.612	n.a.
15	JLA5G 1X G6L120334-18 N/2	1.0000	Unknown	0.098	29.893	n.a.	n.a.	4.582	n.a.
16	JLA6G 5X G6L120334-23	5.0000	Unknown	1.320	7.336	2.556	n.a.	n.a.	5.008
17	JLA6M 20X G6L120334-24	20.0000	Unknown	2.473	18.155	n.a.	n.a.	n.a.	18.174
18	JLA7G 20X G6L120334-26	20.0000	Unknown	n.a.	6.789	1.174	21.663	n.a.	7.098
19	JLA4L 20X G6L120334-6	1.0000	Unknown	n.a.	1.043	0.103	n.a.	n.a.	n.a.
20	CCV	1.0000	Unknown	24.944	50.352	4.993	24.850	4.971	24.931
21	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
22	JLA38 100X G6L120334-2 N/2 100.0000	100.0000	Unknown	n.a.	31.528	n.a.	n.a.	n.a.	29.771
23	JLA4L 100X G6L120334-6 N/2 100.0000	100.0000	Unknown	n.a.	30.515	n.a.	n.a.	n.a.	28.154
24	JLA4V 100X G6L120334-7 N/2 100.0000	100.0000	Unknown	n.a.	368.863	n.a.	n.a.	n.a.	49.878
25	JLA38 1000X G6L120334-2	1000.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
26	JLA38 S 100X G6L120334-2	100.0000	Unknown	805.061	44.961	n.a.	n.a.	n.a.	n.a.
27	JLA6G 100X G6L120334-23 N/2 100.0000	100.0000	Unknown	n.a.	28.237	n.a.	584.093	n.a.	n.a.
28	JLA6M 100X G6L120334-24 N/2 100.0000	100.0000	Unknown	n.a.	28.492	n.a.	n.a.	n.a.	25.400
29	JLA7G 100X G6L120334-26 N/2 100.0000	100.0000	Unknown	n.a.	20.435	n.a.	49.157	n.a.	17.400
30	JLCFG 1X G6L120375-1	1.0000	Unknown	0.105	49.628	n.a.	0.253	1.785	n.a.
31	JLCFN 1X G6L120375-2	1.0000	Unknown	0.140	375.069	n.a.	1.234	1.201	n.a.
32	CCV	1.0000	Unknown	24.832	50.463	5.006	24.854	4.980	24.940
33	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
34	JLA5E S 1X G6L120334-17	1.0000	Unknown	4.677	40.756	1.916	2.105	6.708	n.a.
35	JLA5E D 1X G6L120334-17	1.0000	Unknown	4.667	40.867	1.910	2.156	6.726	n.a.
36	JLCFP 1X G6L120375-3	1.0000	Unknown	0.127	117.095	n.a.	1.996	1.717	n.a.
37	JLCFQ 1X G6L120375-4	1.0000	Unknown	n.a.	12.300	n.a.	n.a.	0.086	n.a.
38	JLCFR 1X G6L120375-5	1.0000	Unknown	0.190	63.484	n.a.	0.614	2.886	n.a.
39	JLCFT 1X G6L120375-6	1.0000	Unknown	n.a.	1.676	n.a.	n.a.	n.a.	n.a.
40	JLCFV 1X G6L120375-7	1.0000	Unknown	n.a.	1.243	n.a.	n.a.	n.a.	n.a.

Sequence: 061213A  
 Operator:ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	SO4 [ppm] Sulfate	Status	Program
1	1R	1.007	Finished	AS14A PROGRAM
2	2R	4.987	Finished	AS14A PROGRAM
3	3R	9.960	Finished	AS14A PROGRAM
4	4R	20.131	Finished	AS14A PROGRAM
5	5R	49.882	Finished	AS14A PROGRAM
6	6R	100.034	Finished	AS14A PROGRAM
7	BLANK	n.a.	Finished	AS14A PROGRAM
8	ICV	74.997	Finished	AS14A PROGRAM
9	ICB	n.a.	Finished	AS14A PROGRAM
10	JLA38 10X G6L120334-2	43.987	Finished	AS14A PROGRAM
11	JLA4D 1X G6L120334-3	32.820	Finished	AS14A PROGRAM
12	JLA4L 2X G6L120334-6	44.939	Finished	AS14A PROGRAM
13	JLA4V 5X G6L120334-7	46.806	Finished	AS14A PROGRAM
14	JLA5E 1X G6L120334-17	27.904	Finished	AS14A PROGRAM
15	JLA5G 1X G6L120334-18	27.936	Finished	AS14A PROGRAM
16	JLA6G 5X G6L120334-23	32.386	Finished	AS14A PROGRAM
17	JLA6M 20X G6L120334-24	31.753	Finished	AS14A PROGRAM
18	JLA7G 20X G6L120334-26	10.256	Finished	AS14A PROGRAM
19	JLA4L 20X G6L120334-6	n.a.	Finished	AS14A PROGRAM
20	CCV	49.833	Finished	AS14A PROGRAM
21	CCB	n.a.	Finished	AS14A PROGRAM
22	JLA38 100X G6L120334-2	51.840	Finished	AS14A PROGRAM
23	JLA4L 100X G6L120334-6	54.665	Finished	AS14A PROGRAM
24	JLA4V 100X G6L120334-7	65.610	Finished	AS14A PROGRAM
25	JLA38 1000X G6L120334-2	n.a.	Finished	AS14A PROGRAM
26	JLA38 S 100X G6L120334-2	n.a.	Finished	AS14A PROGRAM
27	JLA6G 100X G6L120334-23	32.047	Finished	AS14A PROGRAM
28	JLA6M 100X G6L120334-24	40.056	Finished	AS14A PROGRAM
29	JLA7G 100X G6L120334-26	25.404	Finished	AS14A PROGRAM
30	JLCFG 1X G6L120375-1	53.296	Finished	AS14A PROGRAM
31	JLCFN 1X G6L120375-2	206.822	Finished	AS14A PROGRAM
32	CCV	49.937	Finished	AS14A PROGRAM
33	CCB	n.a.	Finished	AS14A PROGRAM
34	JLA5E S 1X G6L120334-17	38.440	Finished	AS14A PROGRAM
35	JLA5E D 1X G6L120334-17	38.487	Finished	AS14A PROGRAM
36	JLCFP 1X G6L120375-3	137.334	Finished	AS14A PROGRAM
37	JLCFQ 1X G6L120375-4	13.065	Finished	AS14A PROGRAM
38	JLCFR 1X G6L120375-5	103.908	Finished	AS14A PROGRAM
39	JLCFT 1X G6L120375-6	2.423	Finished	AS14A PROGRAM
40	JLCFV 1X G6L120375-7	2.007	Finished	AS14A PROGRAM

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Method	Inj. Date/Time	Inj. Vol.	Sample ID
1	1R	AS14A METHODHIGH 8PTCURVE	12/1/2006 1:54:46 PM	100.0	2724-WC-39-3
2	2R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:10:16 PM	100.0	2724-WC-39-7
3	3R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:25:46 PM	100.0	2724-WC-40-1
4	4R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:41:16 PM	100.0	2724-WC-40-4
5	5R	AS14A METHODHIGH 8PTCURVE	12/1/2006 2:56:46 PM	100.0	2724-WC-40-7
6	6R	AS14A METHODHIGH 8PTCURVE	12/1/2006 3:12:16 PM	100.0	2724-WC-40-10
7	BLANK	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:03:39 AM	100.0	
8	ICV	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:19:10 AM	100.0	2724-WC-12-5
9	ICB	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:34:40 AM	100.0	
10	JLA38 10X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:50:10 AM	100.0	
11	JLA4D 1X G6L120334-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:05:40 AM	100.0	
12	JLA4L 2X G6L120334-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:21:10 AM	100.0	
13	JLA4V 5X G6L120334-7	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:36:41 AM	100.0	
14	JLA5E 1X G6L120334-17	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:52:11 AM	100.0	
15	JLA5G 1X G6L120334-18	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:07:41 AM	100.0	
16	JLA6G 5X G6L120334-23	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:23:11 AM	100.0	
17	JLA6M 20X G6L120334-24	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:38:41 AM	100.0	
18	JLA7G 20X G6L120334-26	AS14A METHODHIGH 8PTCURVE	12/13/2006 11:54:11 AM	100.0	
19	JLA4L 20X G6L120334-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:09:41 PM	100.0	
20	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:25:11 PM	100.0	2724-WC-40-7
21	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:40:41 PM	100.0	
22	JLA38 100X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 12:56:11 PM	100.0	
23	JLA4L 100X G6L120334-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:11:42 PM	100.0	
24	JLA4V 100X G6L120334-7	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:27:12 PM	100.0	
25	JLA38 1000X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:42:42 PM	100.0	
26	JLA38 S 100X G6L120334-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 1:58:12 PM	100.0	2627-WC-56-2
27	JLA6G 100X G6L120334-23	AS14A METHODHIGH 8PTCURVE	12/13/2006 2:19:57 PM	100.0	
28	JLA6M 100X G6L120334-24	AS14A METHODHIGH 8PTCURVE	12/13/2006 2:35:27 PM	100.0	
29	JLA7G 100X G6L120334-26	AS14A METHODHIGH 8PTCURVE	12/13/2006 2:50:57 PM	100.0	
30	JLCFG 1X G6L120375-1	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:06:27 PM	100.0	
31	JLCFN 1X G6L120375-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:21:57 PM	100.0	
32	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:37:27 PM	100.0	2724-WC-40-7
33	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 3:52:57 PM	100.0	
34	JLA5E S 1X G6L120334-17	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:08:27 PM	100.0	
35	JLA5E D 1X G6L120334-17	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:23:57 PM	100.0	
36	JLCFP 1X G6L120375-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:39:28 PM	100.0	
37	JLCFQ 1X G6L120375-4	AS14A METHODHIGH 8PTCURVE	12/13/2006 4:54:58 PM	100.0	
38	JLCFR 1X G6L120375-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:10:28 PM	100.0	
39	JLCFT 1X G6L120375-6	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:25:58 PM	100.0	
40	JLCFV 1X G6L120375-7	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:41:28 PM	100.0	

Sequence: 061213A  
 Operator:ounis

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Comment	Weight
1	1R	OUNI SONIA	1.0000
2	2R	OUNI SONIA	1.0000
3	3R	OUNI SONIA	1.0000
4	4R	OUNI SONIA	1.0000
5	5R	OUNI SONIA	1.0000
6	6R	OUNI SONIA	1.0000
7	BLANK	OUNI SONIA	1.0000
8	ICV	OUNI SONIA	1.0000
9	ICB	OUNI SONIA	1.0000
10	JLA38 10X G6L120334-2	OUNI SONIA	1.0000
11	JLA4D 1X G6L120334-3	OUNI SONIA	1.0000
12	JLA4L 2X G6L120334-6	OUNI SONIA	1.0000
13	JLA4V 5X G6L120334-7	OUNI SONIA	1.0000
14	JLA5E 1X G6L120334-17	OUNI SONIA	1.0000
15	JLA5G 1X G6L120334-18	OUNI SONIA	1.0000
16	JLA6G 5X G6L120334-23	OUNI SONIA	1.0000
17	JLA6M 20X G6L120334-24	OUNI SONIA	1.0000
18	JLA7G 20X G6L120334-26	OUNI SONIA	1.0000
19	JLA4L 20X G6L120334-6	OUNI SONIA	1.0000
20	CCV	OUNI SONIA	1.0000
21	CCB	OUNI SONIA	1.0000
22	JLA38 100X G6L120334-2	OUNI SONIA	1.0000
23	JLA4L 100X G6L120334-6	OUNI SONIA	1.0000
24	JLA4V 100X G6L120334-7	OUNI SONIA	1.0000
25	JLA38 1000X G6L120334-2	OUNI SONIA	1.0000
26	JLA38 S 100X G6L120334-2	OUNI SONIA	1.0000
27	JLA6G 100X G6L120334-23	OUNI SONIA	1.0000
28	JLA6M 100X G6L120334-24	OUNI SONIA	1.0000
29	JLA7G 100X G6L120334-26	OUNI SONIA	1.0000
30	JLCFG 1X G6L120375-1	OUNI SONIA	1.0000
31	JLCFN 1X G6L120375-2	OUNI SONIA	1.0000
32	CCV	OUNI SONIA	1.0000
33	CCB	OUNI SONIA	1.0000
34	JLA5E S 1X G6L120334-17	OUNI SONIA	1.0000
35	JLA5E D 1X G6L120334-17	OUNI SONIA	1.0000
36	JLCFP 1X G6L120375-3	OUNI SONIA	1.0000
37	JLCFQ 1X G6L120375-4	OUNI SONIA	1.0000
38	JLCFR 1X G6L120375-5	OUNI SONIA	1.0000
39	JLCFT 1X G6L120375-6	OUNI SONIA	1.0000
40	JLCFV 1X G6L120375-7	OUNI SONIA	1.0000

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate
41	JJA5G 1X G6K090216-5	1.0000	Unknown	n.a.	7.437	n.a.	n.a.	0.180	n.a.
42	JJA5G S 1X G6K090216-5	1.0000	Unknown	n.a.	17.353	n.a.	n.a.	0.174	n.a.
43	JJA5G D 1X G6K090216-5	1.0000	Unknown	n.a.	17.382	n.a.	n.a.	0.173	n.a.
44	CCV	1.0000	Unknown	24.871	50.535	5.003 ✓	24.825	4.981	24.860
45	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
46	JKRXA 1X G6L050146-1	1.0000	Unknown	0.105	0.230	n.a.	n.a.	0.546	0.574
47	JKRXC 1X G6L050146-2	1.0000	Unknown	0.115	0.373	n.a.	n.a.	0.564	0.837
48	JKRXD 1X G6L050146-3	1.0000	Unknown	0.118	0.831	n.a.	n.a.	0.587	0.579
49	JKRXE 1X G6L050146-4	1.0000	Unknown	0.142	0.645	n.a.	n.a.	0.740	0.681
50	MB (G6L050146)	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	0.419
51	LCS (G6L050146)	1.0000	Unknown	4.818	9.508	0.999	4.969	0.996	5.138
52	DCS (G6L050146)	1.0000	Unknown	4.895	9.539	1.013	4.983	1.008	5.203
53	JLCFN 5X G6L120375-2	5.0000	Unknown	n.a.	556.542	n.a.	1.553	1.241	n.a.
54	JLCFP 2X G6L120375-3	2.0000	Unknown	n.a.	127.041	n.a.	1.985	1.785	n.a.
55	JLCFQ 5X G6L120375-4	5.0000	Unknown	n.a.	12.539	n.a.	n.a.	n.a.	n.a.
56	CCV	1.0000	Unknown	24.793	50.571	5.008 ✓	24.868	4.984	24.934
57	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
58	SHUTDOWN	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum			1051.985	2725.602	178.578	933.749	94.376	495.905

Sequence: 061213A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
 Timebase: ICS1000  
 #Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
 Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	SO4 [ppm] Sulfate	Status	Program
41	JJA5G 1X G6K090216-5	3.728	Finished	AS14A PROGRAM
42	JJA5G S 1X G6K090216-5	3.650	Finished	AS14A PROGRAM
43	JJA5G D 1X G6K090216-5	3.682	Finished	AS14A PROGRAM
44	CCV	49.844	Finished	AS14A PROGRAM
45	CCB	n.a.	Finished	AS14A PROGRAM
46	JKRXA 1X G6L050146-1	0.861	Finished	AS14A PROGRAM
47	JKRXC 1X G6L050146-2	1.131	Finished	AS14A PROGRAM
48	JKRXD 1X G6L050146-3	1.253	Finished	AS14A PROGRAM
49	JKRXE 1X G6L050146-4	3.499	Finished	AS14A PROGRAM
50	MB (G6L050146)	0.151	Finished	AS14A PROGRAM
51	LCS (G6L050146)	9.916	Finished	AS14A PROGRAM
52	DCS (G6L050146)	9.831	Finished	AS14A PROGRAM
53	JLCFN 5X G6L120375-2	220.771	Finished	AS14A PROGRAM
54	JLCFP 2X G6L120375-3	144.611	Finished	AS14A PROGRAM
55	JLCFQ 5X G6L120375-4	13.129	Finished	AS14A PROGRAM
56	CCV	50.006	Finished	AS14A PROGRAM
57	CCB	n.a.	Finished	AS14A PROGRAM
58	SHUTDOWN	n.a.	Finished	ICS1000 SHUTDOWN PROGRAM
	Sum	2041.025		

Sequence: 061213A  
Operator: ounis

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Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
Timebase: ICS1000  
#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Method	Inj. Date/Time	Inj. Vol.	Sample ID
41	JJA5G 1X G6K090216-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 5:56:58 PM	100.0	
42	JJA5G S 1X G6K090216-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:12:28 PM	100.0	2627-WC-34-5
43	JJA5G D 1X G6K090216-5	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:27:58 PM	100.0	2627-WC-34-5
44	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:43:29 PM	100.0	2724-WC-40-7
45	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 6:58:59 PM	100.0	
46	JKRXA 1X G6L050146-1	AS14A METHODHIGH 8PTCURVE	12/13/2006 7:14:29 PM	100.0	
47	JKRXC 1X G6L050146-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 7:29:59 PM	100.0	
48	JKRXD 1X G6L050146-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 7:45:29 PM	100.0	
49	JKRXE 1X G6L050146-4	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:00:59 PM	100.0	
50	MB (G6L050146)	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:16:30 PM	100.0	
51	LCS (G6L050146)	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:32:00 PM	100.0	2724-WC-40-10
52	DCS (G6L050146)	AS14A METHODHIGH 8PTCURVE	12/13/2006 8:47:30 PM	100.0	2724-WC-40-10
53	JLCFN 5X G6L120375-2	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:03:00 PM	100.0	
54	JLCFP 2X G6L120375-3	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:18:31 PM	100.0	
55	JLCFQ 5X G6L120375-4	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:34:01 PM	100.0	
56	CCV	AS14A METHODHIGH 8PTCURVE	12/13/2006 9:49:31 PM	100.0	2724-WC-40-7
57	CCB	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:05:01 PM	100.0	
58	SHUTDOWN	AS14A METHODHIGH 8PTCURVE	12/13/2006 10:20:32 PM	100.0	
	Sum				

Sequence: 061213A  
Operator: ounis

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Title: AS14A 013004

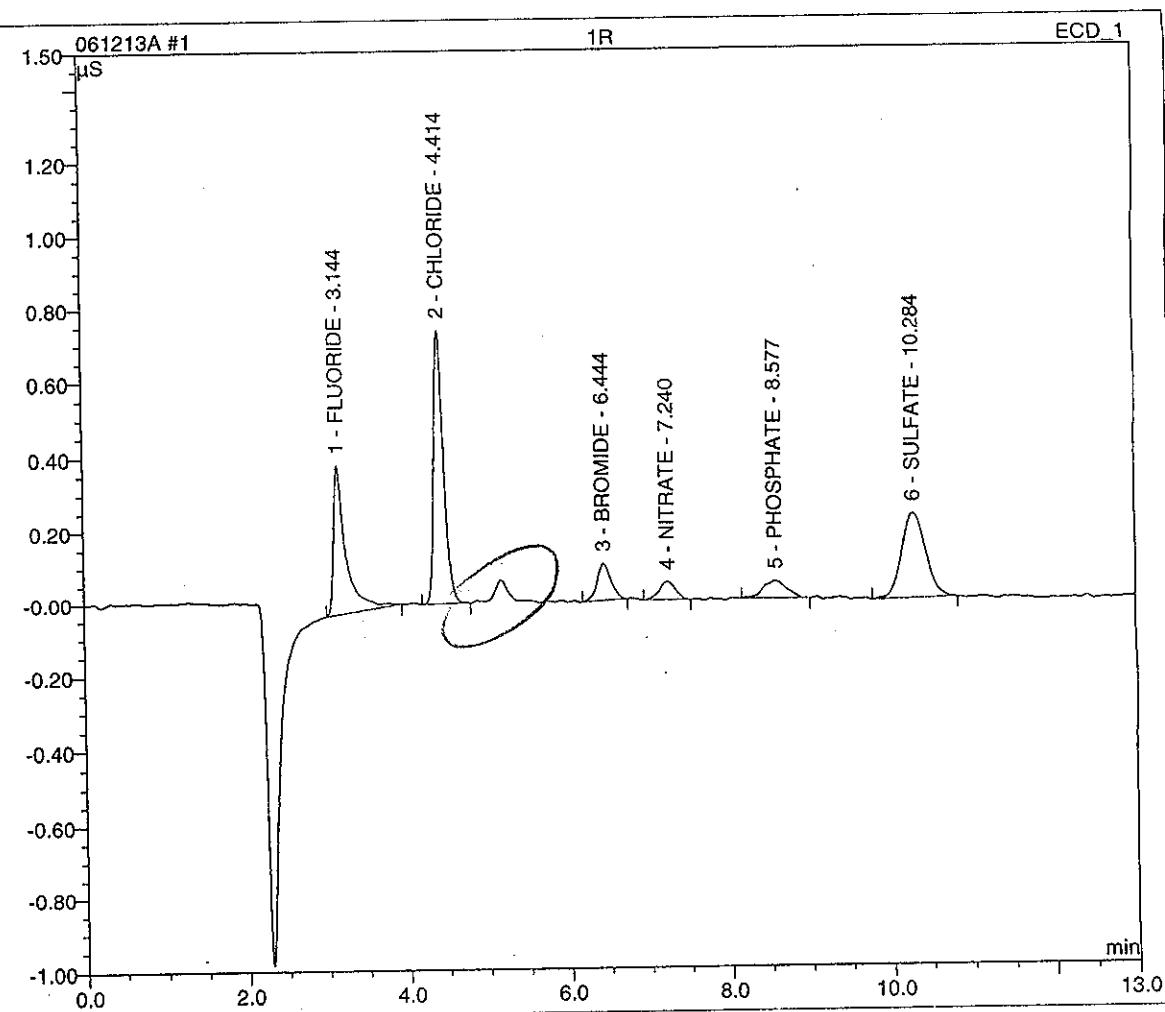
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Location: ICS1000\SEQUENCES\2006\DECEMBER 2006  
Timebase: ICS1000  
#Samples: 58

Created: 12/13/2006 8:53:54 AM by ounis  
Last Update: 12/14/2006 2:16:56 PM by ounis

No.	Name	Comment	Weight
41	JJA5G 1X G6K090216-5	OUNI SONIA	1.0000
42	JJA5G S 1X G6K090216-5	OUNI SONIA	1.0000
43	JJA5G D 1X G6K090216-5	OUNI SONIA	1.0000
44	CCV	OUNI SONIA	1.0000
45	CCB	OUNI SONIA	1.0000
46	JKRXA 1X G6L050146-1	OUNI SONIA	1.0000
47	JKRXC 1X G6L050146-2	OUNI SONIA	1.0000
48	JKRXD 1X G6L050146-3	OUNI SONIA	1.0000
49	JKRXE 1X G6L050146-4	OUNI SONIA	1.0000
50	MB (G6L050146)	OUNI SONIA	1.0000
51	LCS (G6L050146)	OUNI SONIA	1.0000
52	DCS (G6L050146)	OUNI SONIA	1.0000
53	JLCFN 5X G6L120375-2	OUNI SONIA	1.0000
54	JLCFP 2X G6L120375-3	OUNI SONIA	1.0000
55	JLCFQ 5X G6L120375-4	OUNI SONIA	1.0000
56	CCV	OUNI SONIA	1.0000
57	CCB	OUNI SONIA	1.0000
58	SHUTDOWN	OUNI SONIA	1.0000
Sum			

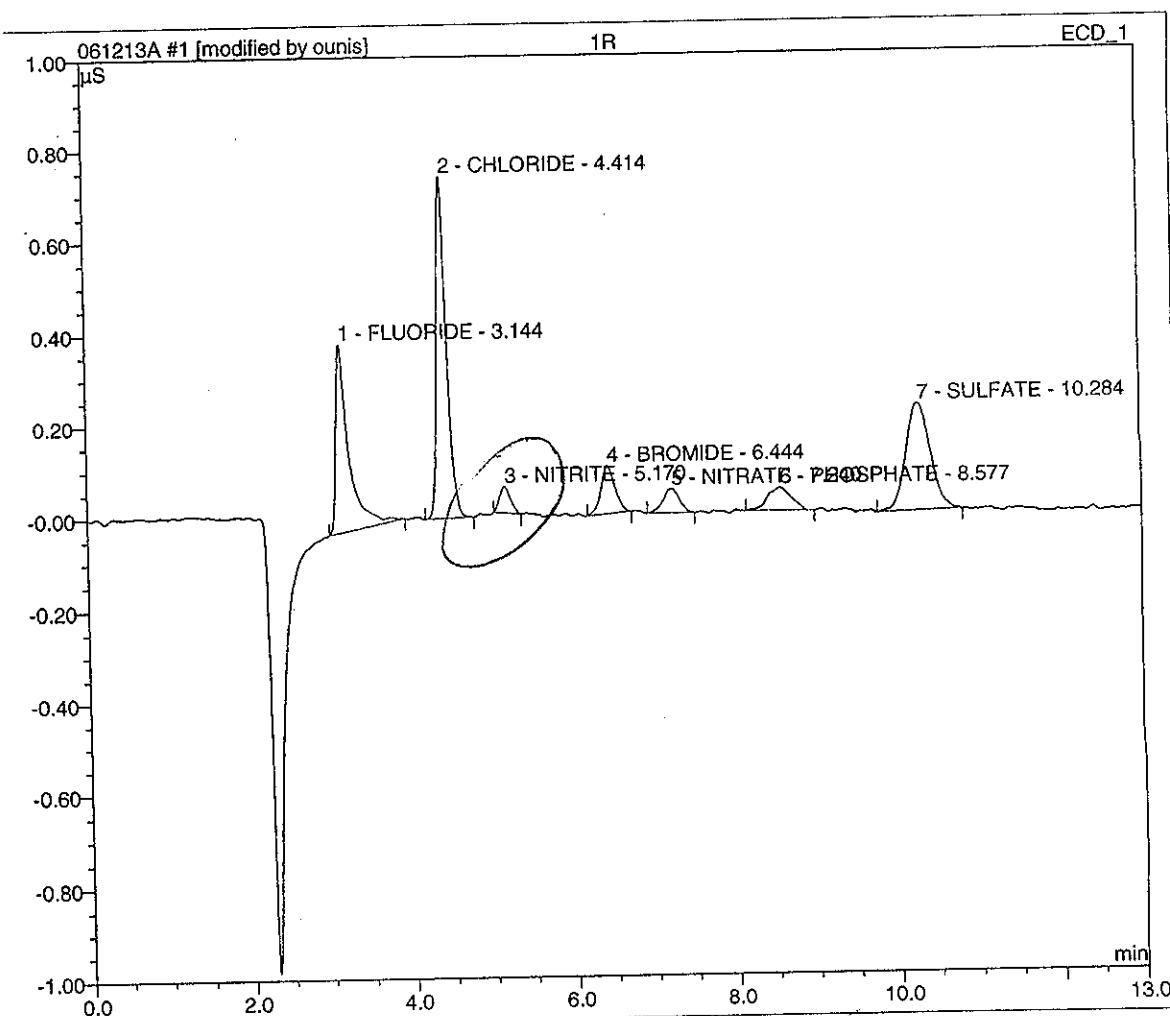
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 13:54	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	0.075	0.410	0.5223
2	4.41	CHLORIDE	BMB	0.106	0.743	0.9899
3	6.44	BROMIDE	BMB	0.021	0.104	0.4820
4	7.24	NITRATE	BMB	0.012	0.052	0.0494
5	8.58	PHOSPHATE	BMB	0.017	0.050	0.2007
6	10.28	SULFATE	BMB	0.082	0.234	1.0073
TOTAL:				0.31	1.59	3.25



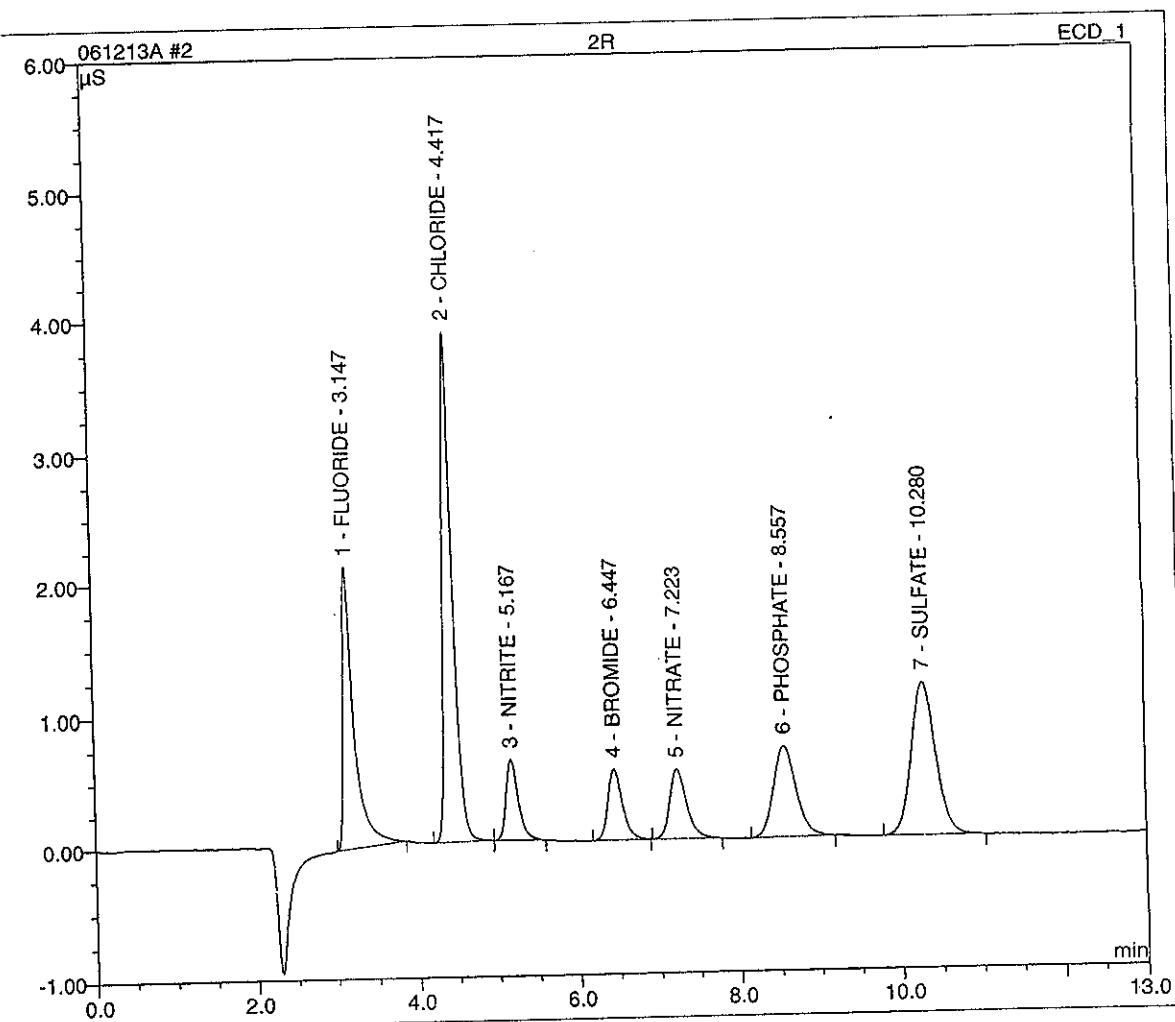
Sample Name:	1R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 13:54	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	0.075	0.410	0.5223
2	4.41	CHLORIDE	BMB	0.106	0.743	0.9899
3	5.17	NITRITE	BMB*	0.009	0.058	0.0500
4	6.44	BROMIDE	BMB	0.021	0.104	0.4820
5	7.24	NITRATE	BMB	0.012	0.052	0.0494
6	8.58	PHOSPHATE	BMB	0.017	0.050	0.2007
7	10.28	SULFATE	BMB	0.082	0.234	1.0073
TOTAL:				0.32	1.65	3.30



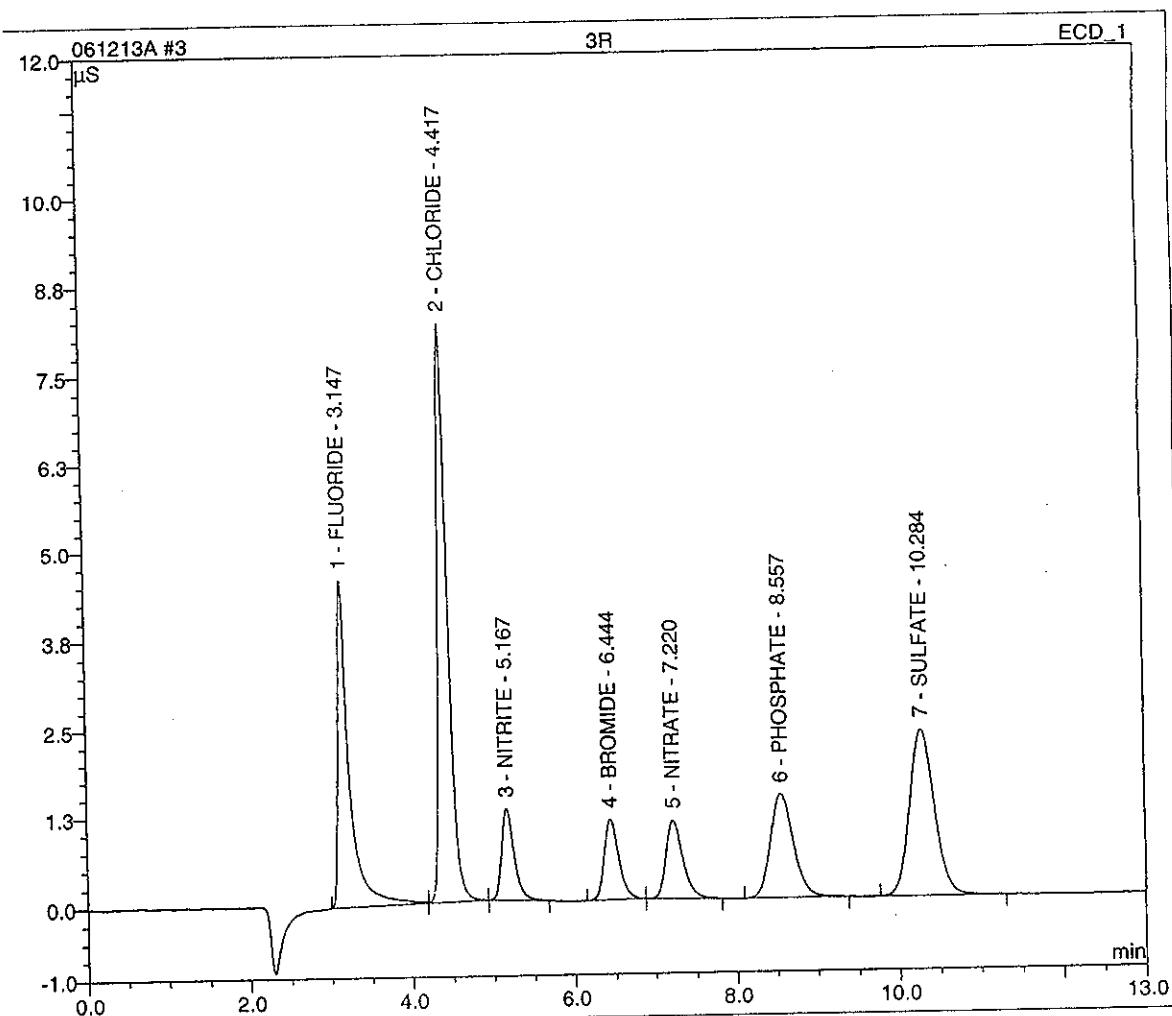
Sample Name:	2R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:10	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BMB	0.346	2.141	2.3145
2	4.42	CHLORIDE	BMB	0.551	3.869	4.7442
3	5.17	NITRITE	bMB	0.109	0.623	0.4946
4	6.45	BROMIDE	BMB	0.115	0.549	2.5268
5	7.22	NITRATE	BMB	0.131	0.536	0.5059
6	8.56	PHOSPHATE	BMB	0.231	0.701	2.4380
7	10.28	SULFATE	BMB	0.406	1.159	4.9866
TOTAL:				1.89	9.58	18.01



Sample Name:	3R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:25	Run Time:	13.00

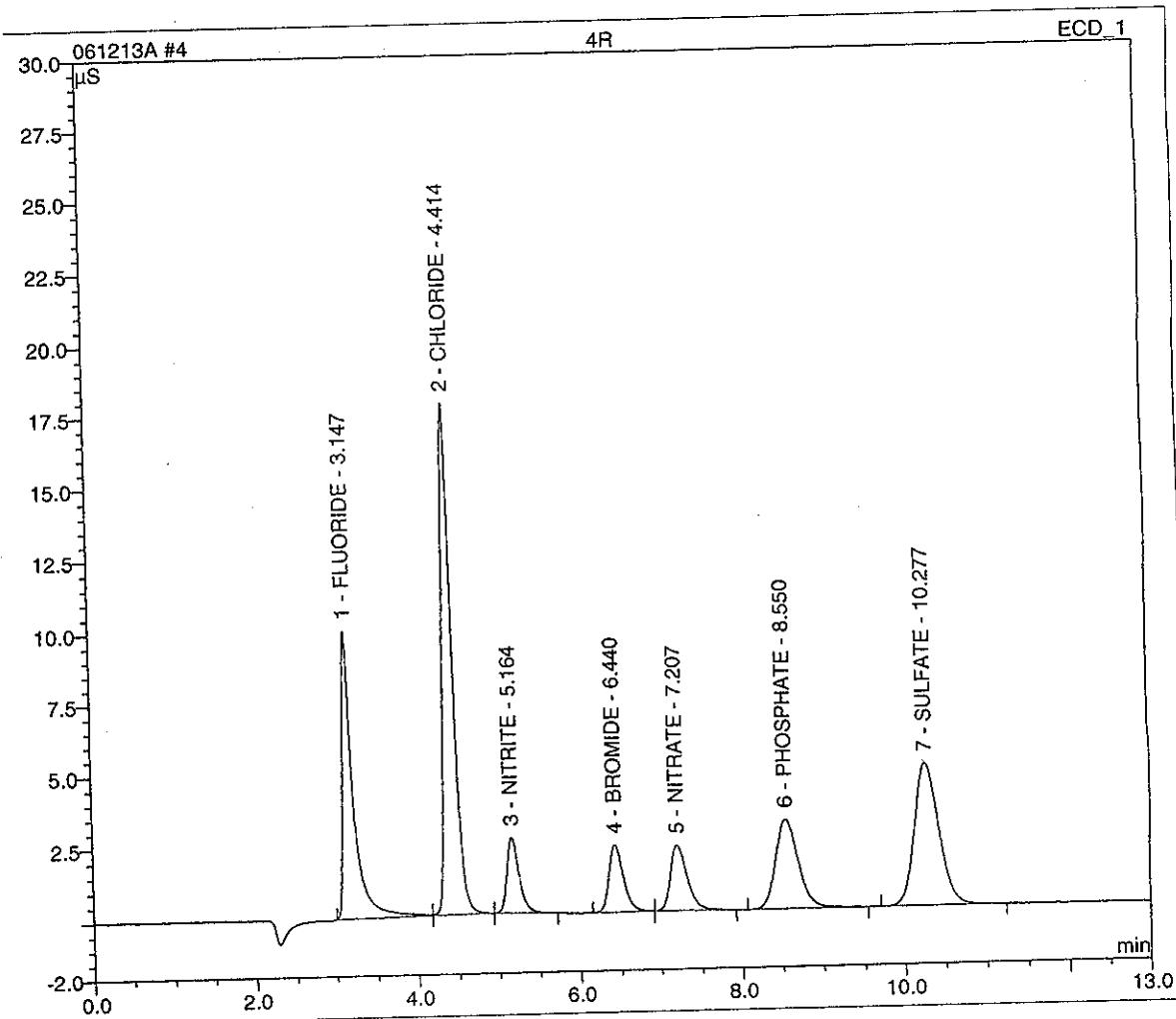
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	0.746	4.581	4.9428
2	4.42	CHLORIDE	Mb	1.151	8.158	9.6784
3	5.17	NITRITE	bMB	0.225	1.267	1.0027
4	6.44	BROMIDE	BMb	0.229	1.110	4.9953
5	7.22	NITRATE	bMB	0.259	1.084	0.9927
6	8.56	PHOSPHATE	BMB	0.474	1.445	4.9435
7	10.28	SULFATE	BMB	0.817	2.348	9.9604
TOTAL:				3.90	19.99	36.52



Sample Name: 4R  
 Sample Type: standard  
 Program: AS14A PROGRAM  
 Inj. Date/Time: 01.12.06 14:41

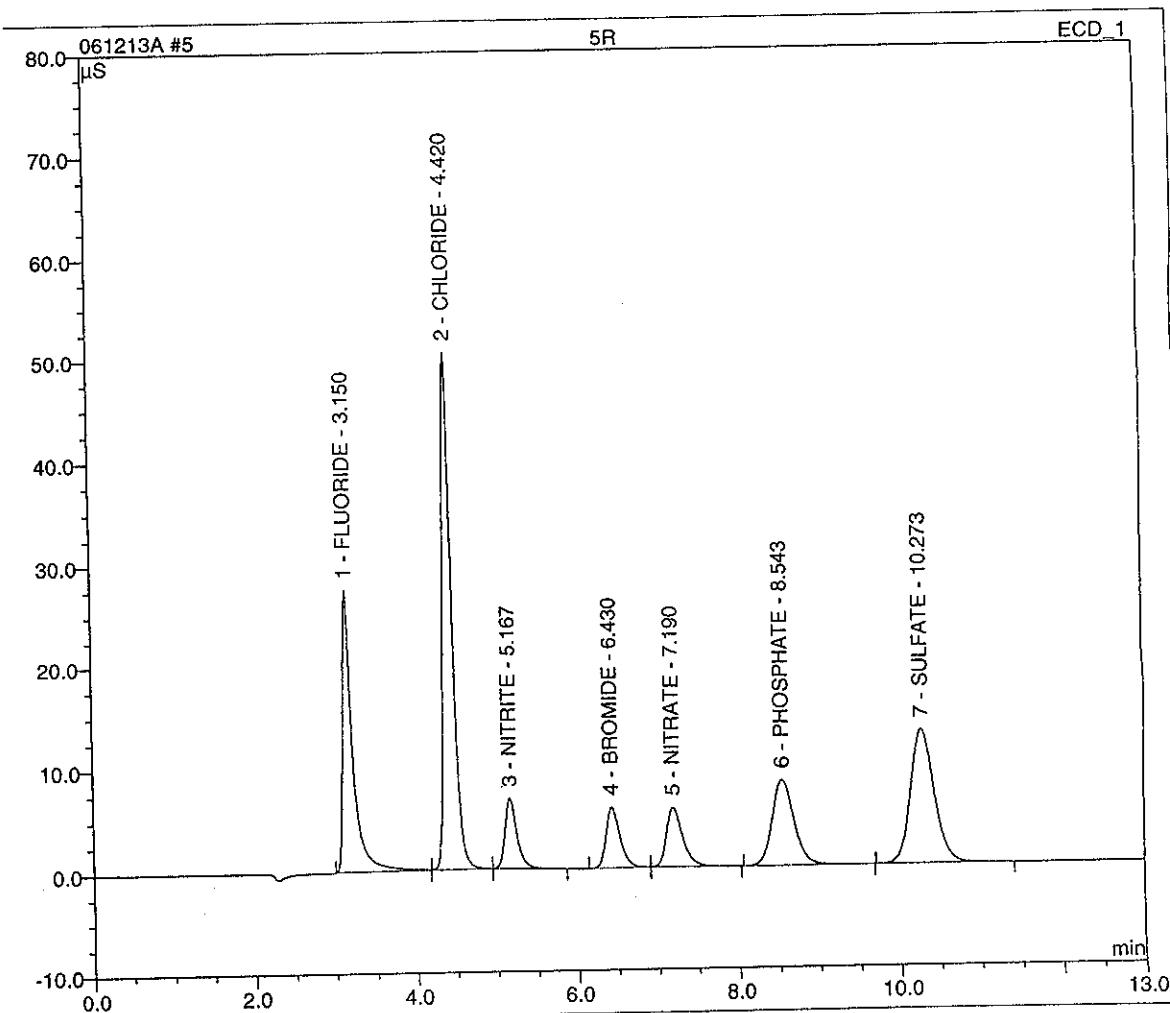
Ini. Vol. 100.0  
 Dilution Factor. 1.0000  
 Operator: ounis  
 Run Time. 13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	1.539	10.005	10.0812
2	4.41	CHLORIDE	Mb	2.464	17.772	20.0097
3	5.16	NITRITE	bMB	0.453	2.576	1.9896
4	6.44	BROMIDE	BMb	0.469	2.277	10.1004
5	7.21	NITRATE	bMB	0.532	2.224	2.0178
6	8.55	PHOSPHATE	BMB	0.995	3.041	10.1270
7	10.28	SULFATE	BMB	1.681	4.863	20.1306
TOTAL:				8.13	42.76	74.46



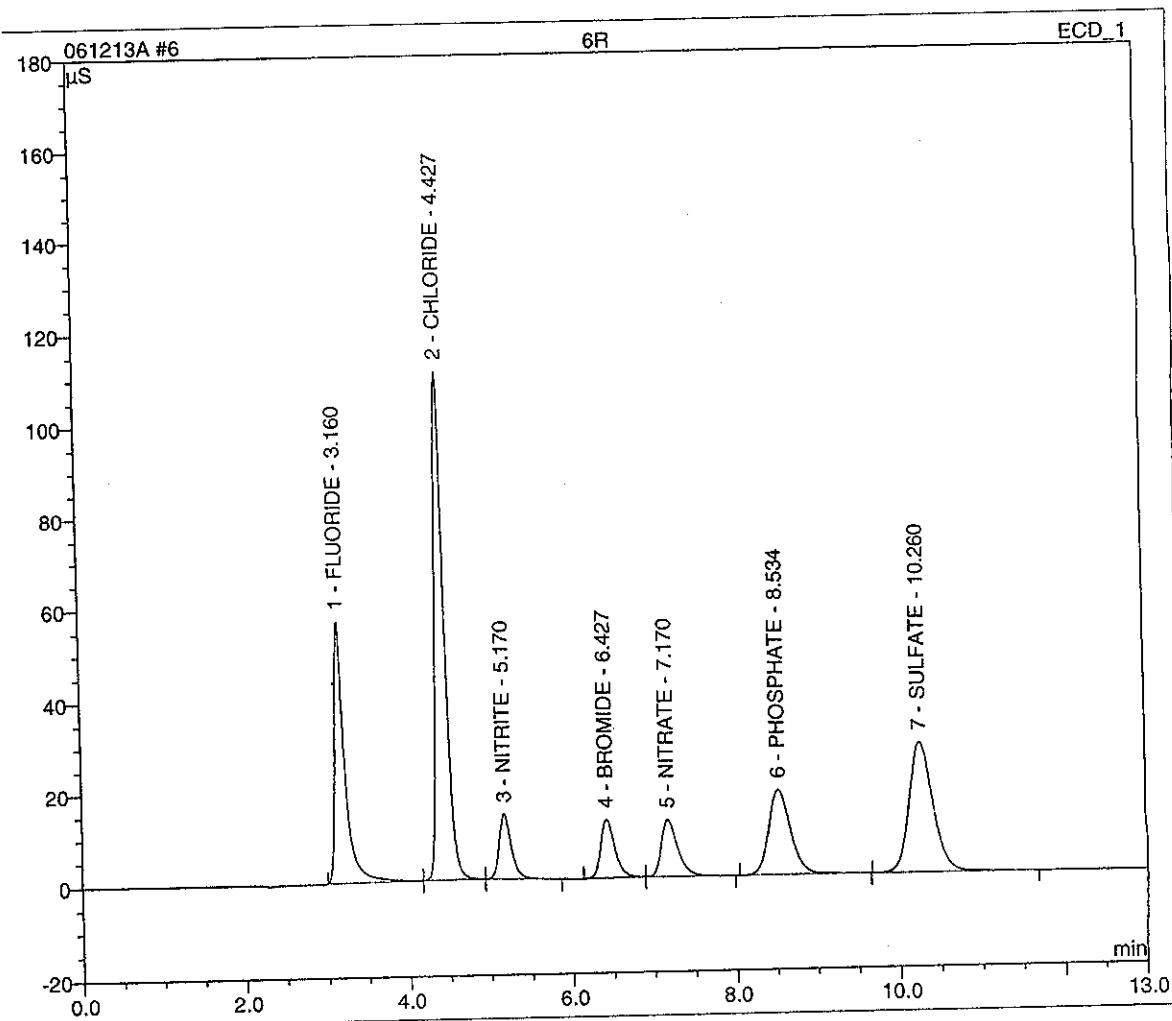
Sample Name:	5R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:56	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^{\cdot}\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	3.966	27.415	25.2582
2	4.42	CHLORIDE	Mb	6.838	50.353	50.8524
3	5.17	NITRITE	bMB	1.179	6.740	5.0206
4	6.43	BROMIDE	BMb	1.189	5.875	24.8418
5	7.19	NITRATE	bMB	1.354	5.736	4.9760
6	8.54	PHOSPHATE	BMB	2.606	8.218	25.0036
7	10.27	SULFATE	BMB	4.378	12.918	49.8821
TOTAL:				21.51	117.26	185.83



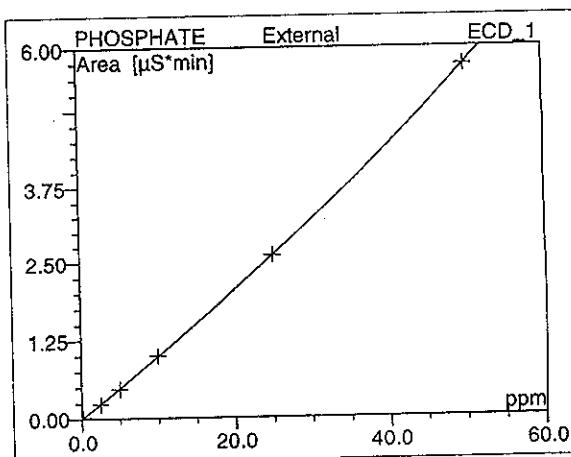
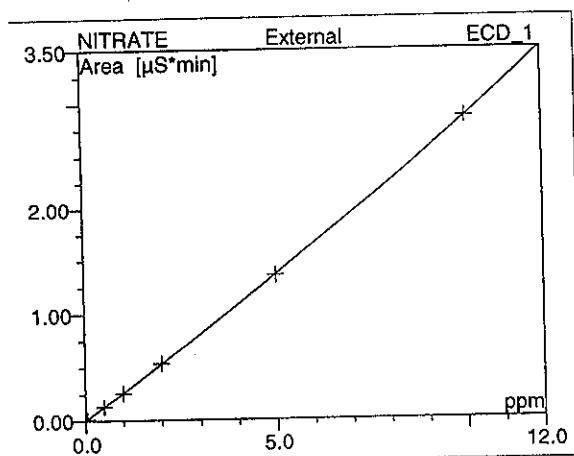
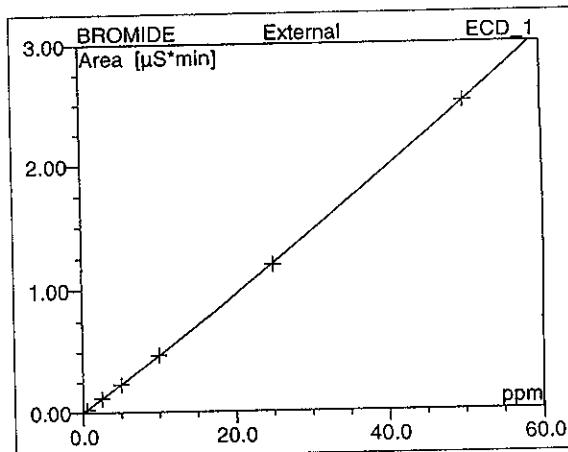
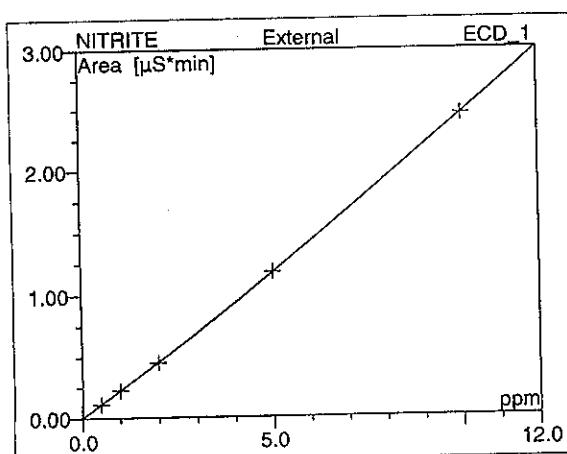
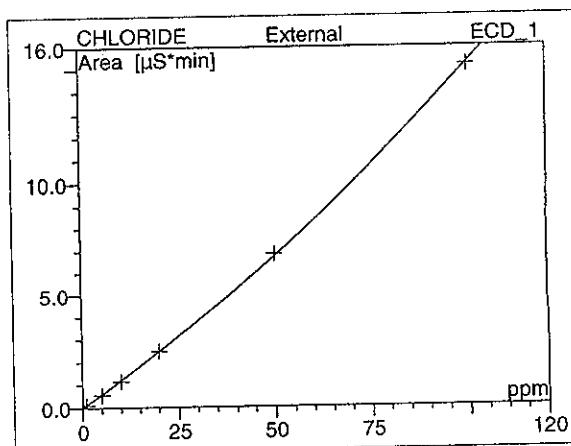
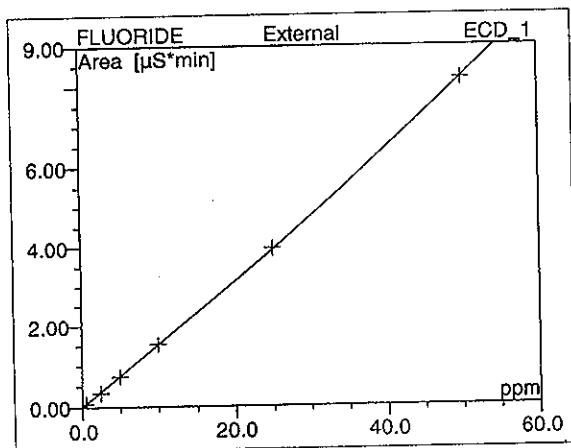
Sample Name:	6R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 15:12	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.16	FLUORIDE	BM	8.169	56.684	49.8791
2	4.43	CHLORIDE	Mb	15.160	110.726	99.6822
3	5.17	NITRITE	bMB	2.454	14.181	9.9923
4	6.43	BROMIDE	BMB	2.514	12.716	50.0545
5	7.17	NITRATE	bMB	2.865	12.362	10.0082
6	8.53	PHOSPHATE	BMB	5.709	18.593	49.9855
7	10.26	SULFATE	BMB	9.498	28.544	100.0340
TOTAL:				46.37	253.81	369.64

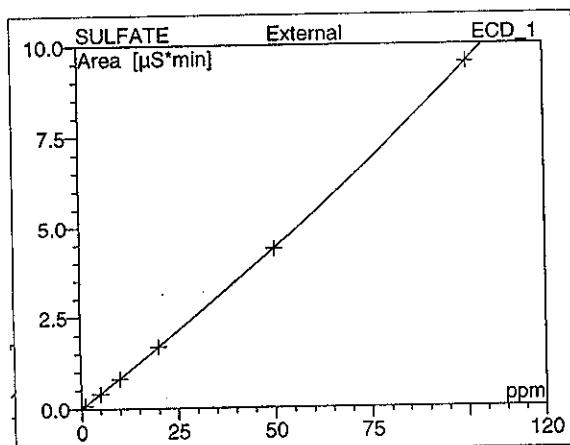


## Calibration Batch Report

Sequence:	061213A	Inj. Vol.:	100.0
Program:	AS14A PROGRAM	Operator:	SACPC205ICS1000
Init Date/Time:	12/01/06 15:12	Run Time:	13:00

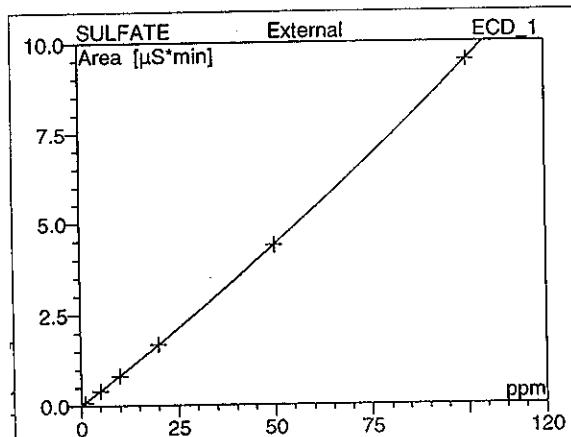


Sequence:	061213A	Inj. Vol.:	100.0
Program:	AS14A PROGRAM	Operator:	n.a.
Inj. Date/Time:	12/01/06 15:12	Run Time:	13.00



No.	Ret. Time min	Peak Name	Cal Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.16	FLUORIDE	X0QOff	6	-0.004	0.150	0.000	✓ 99.953
2	4.43	CHLORIDE	X0QOff	6	-0.009	0.116	0.000	✓ 99.671
3	5.17	NITRITE	X0QOff	5	-0.002	0.224	0.002	✓ 99.971
4	6.43	BROMIDE	X0QOff	6	-0.001	0.046	0.000	✓ 99.952
5	7.17	NITRATE	X0QOff	6	0.000	0.258	0.003	✓ 99.942
6	8.53	PHOSPHATE	X0QOff	6	-0.002	0.094	0.000	✓ 99.809
7	10.26	SULFATE	X0QOff	6	0.000	0.081	0.000	✓ 99.864
AVERAGE:					-0.0026	0.1386	0.0009	99.8801

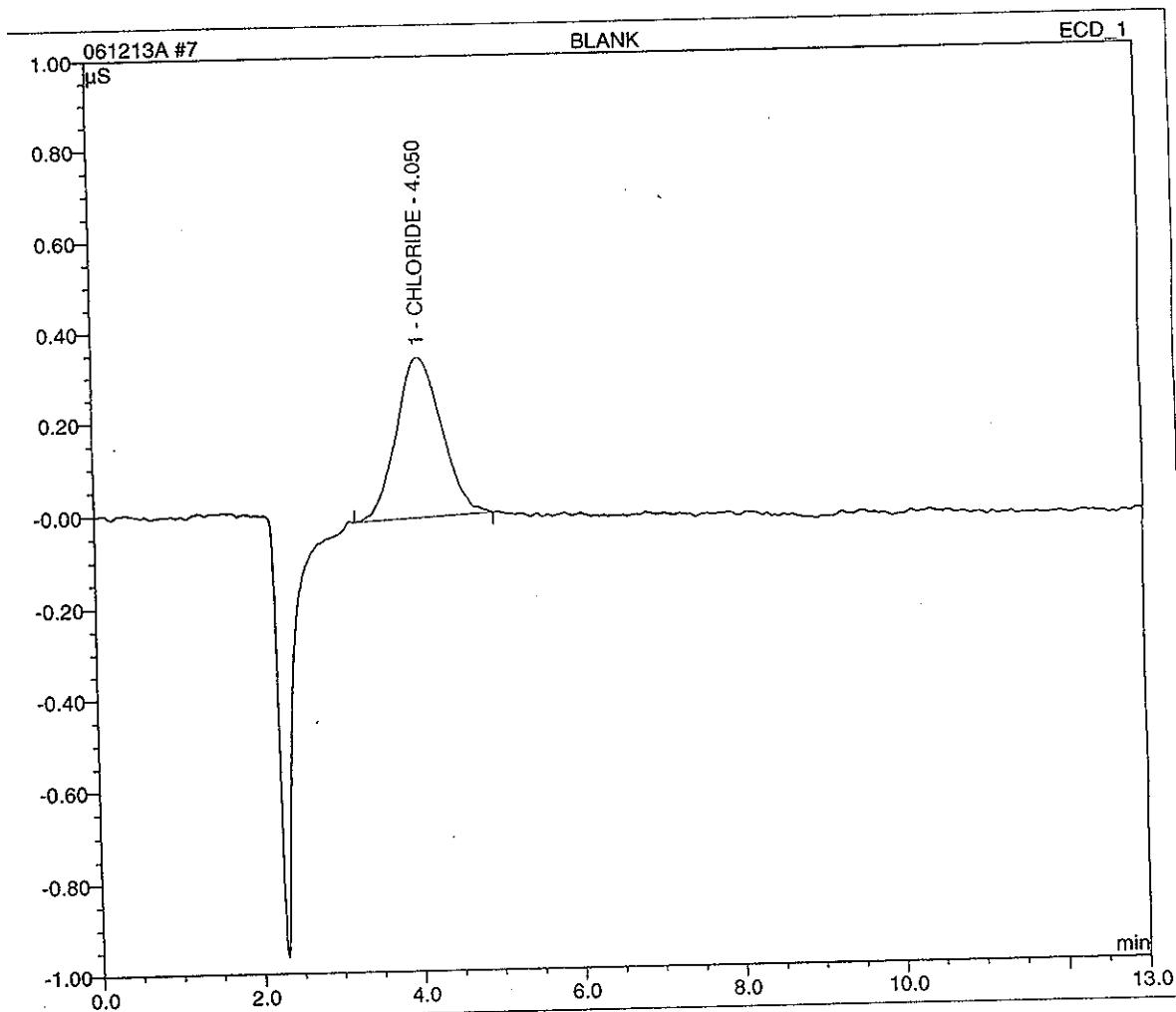
Sequence:	061213A	Inj. Vol.:	100.0
Program:	AS14A PROGRAM	Operator:	n.a.
Init. Date/Time:	12/01/06 15:12	Run Time:	13:00



No.	Ret. Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.16	FLUORIDE	X0QOff	6	-0.004	0.150	0.000	99.953
2	4.43	CHLORIDE	X0QOff	6	-0.009	0.116	0.000	99.671
3	5.17	NITRITE	X0QOff	6	-0.002	0.224	0.002	99.955
4	6.43	BROMIDE	X0QOff	6	-0.001	0.046	0.000	99.952
5	7.17	NITRATE	X0QOff	6	0.000	0.258	0.003	99.942
6	8.53	PHOSPHATE	X0QOff	6	-0.002	0.094	0.000	99.809
7	10.26	SULFATE	X0QOff	6	0.000	0.081	0.000	99.864
AVERAGE:					-0.0026	0.1386	0.0009	99.8779

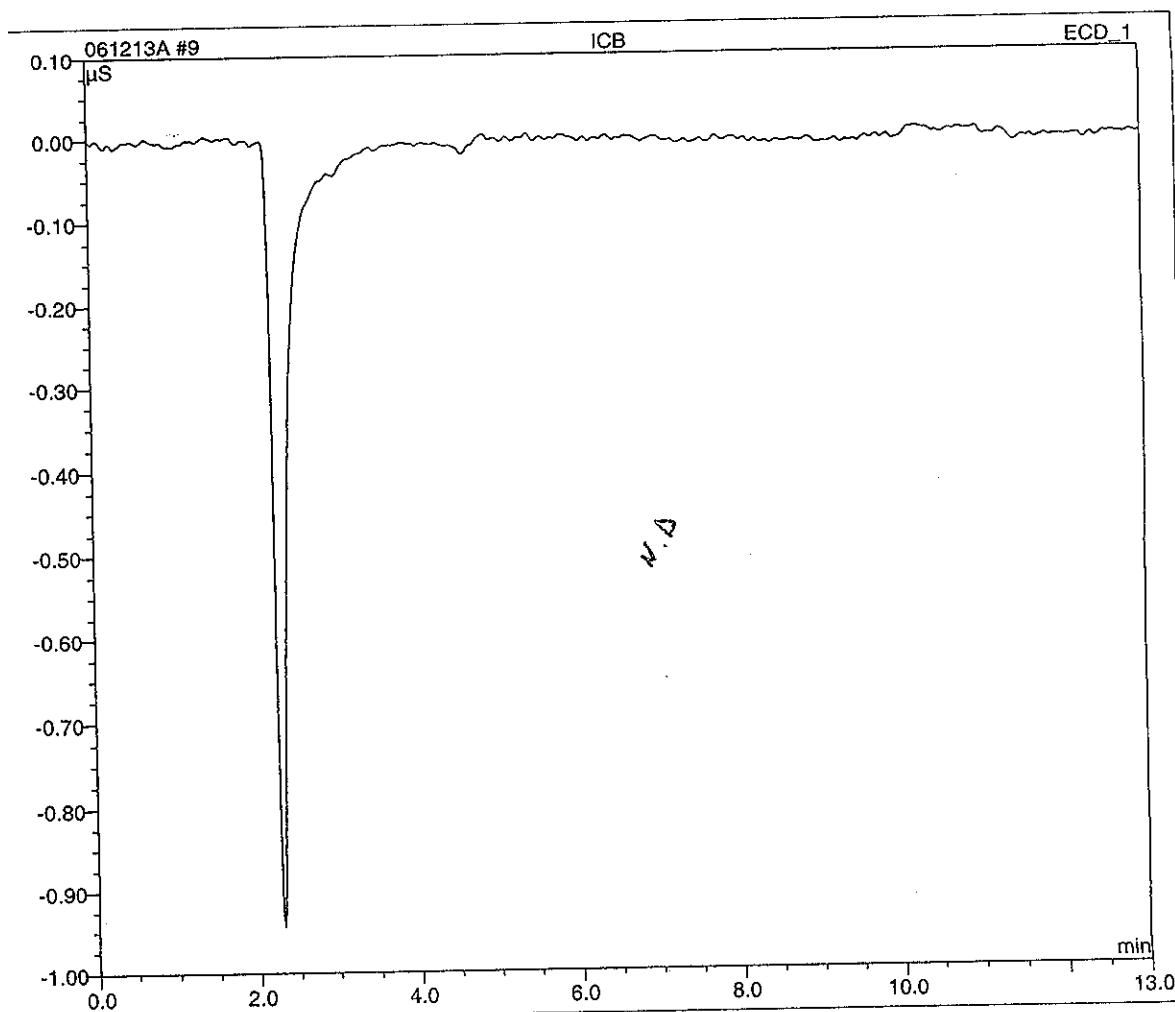
Sample Name:	BLANK	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS11A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 09:03	Run Time:	13.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
1	4.05	CHLORIDE	BMB	0.227	0.350	2.0196
TOTAL:				0.23	0.35	2.02



Sample Name:	ICB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 09:34	Run Time:	13.00

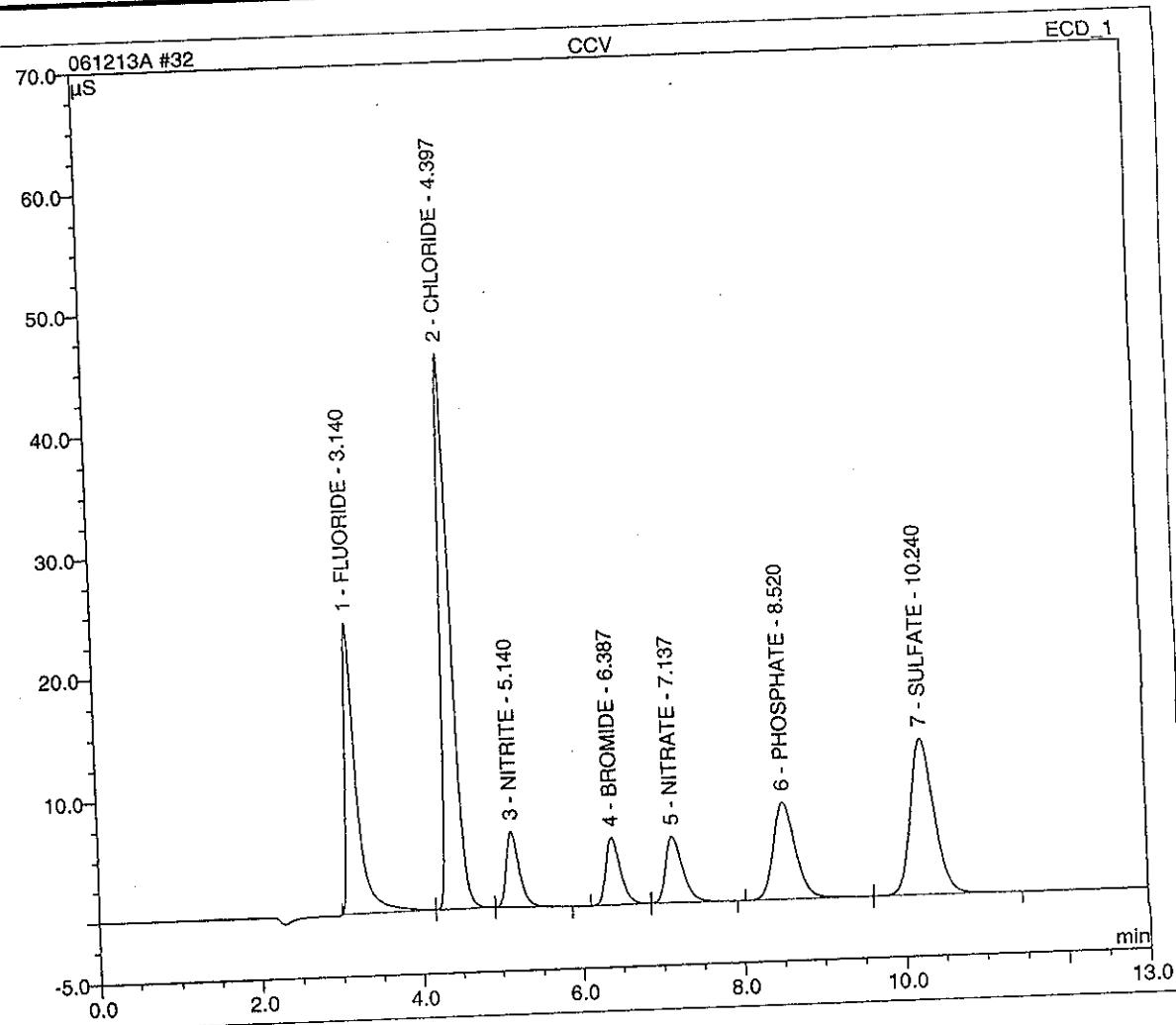
No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



Sample Name: CCV  
 Sample Type: unknown  
 Program: AS14A PROGRAM  
 Inj. Date/Time: 13.12.06 15:37

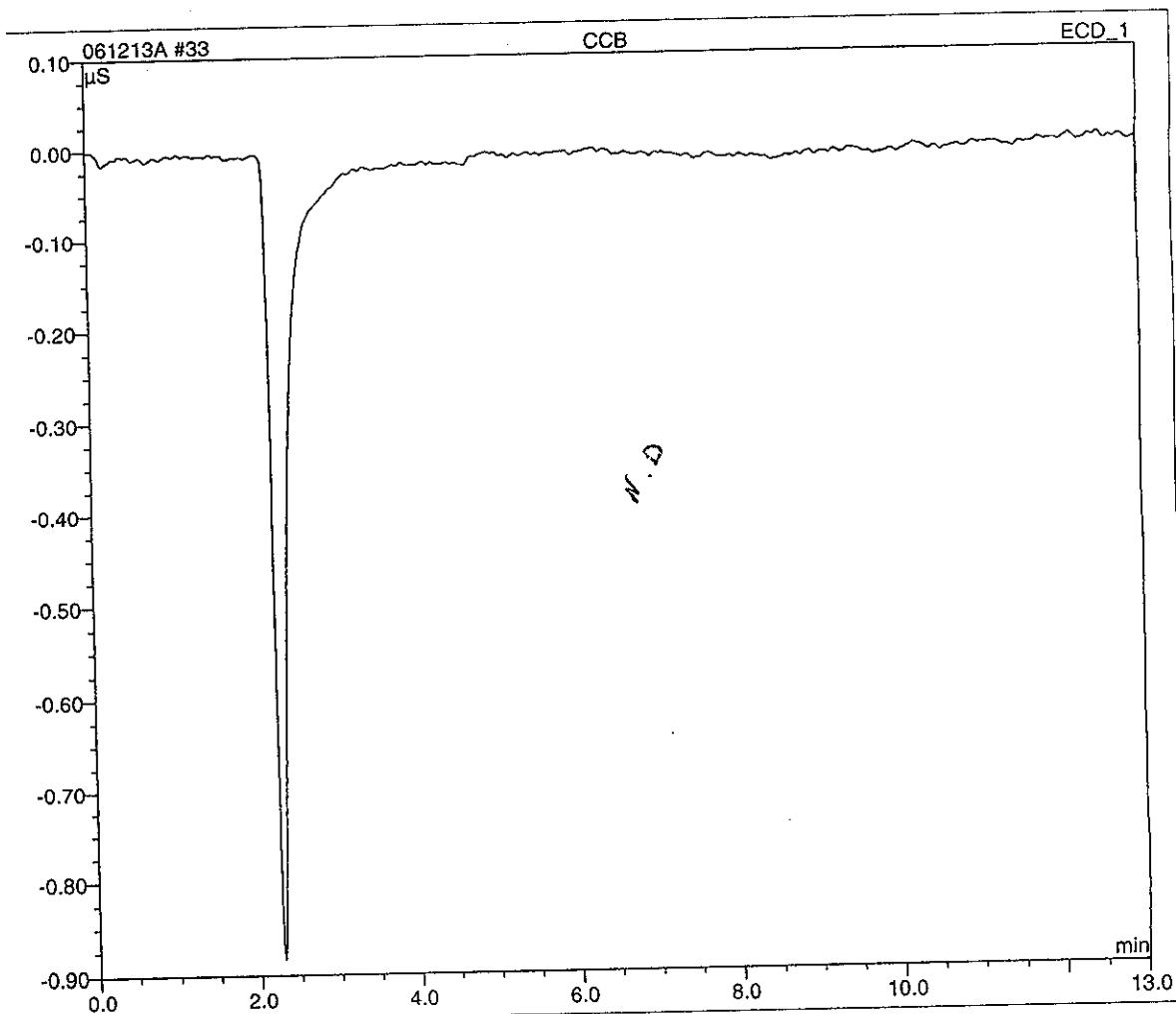
Inj. Vol.: 100.0  
 Dilution Factor: 1.0000  
 Operator: ounis  
 Run Time: 13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	%	Amount ppm
1	3.14	FLUORIDE	BM	3.896	23.886	103	24.8321
2	4.40	CHLORIDE	Mb	6.779	45.698	101	50.4630
3	5.14	NITRITE	bMB	1.175	6.331	100	5.0061
4	6.39	BROMIDE	BMB	1.190	5.643	49	24.8535
5	7.14	NITRATE	bMB	1.355	5.565	100	4.9799
6	8.52	PHOSPHATE	BMB	2.599	8.095		24.9398
7	10.24	SULFATE	BMB	4.383	12.859	104	49.9375
TOTAL:				21.38	108.08		185.01



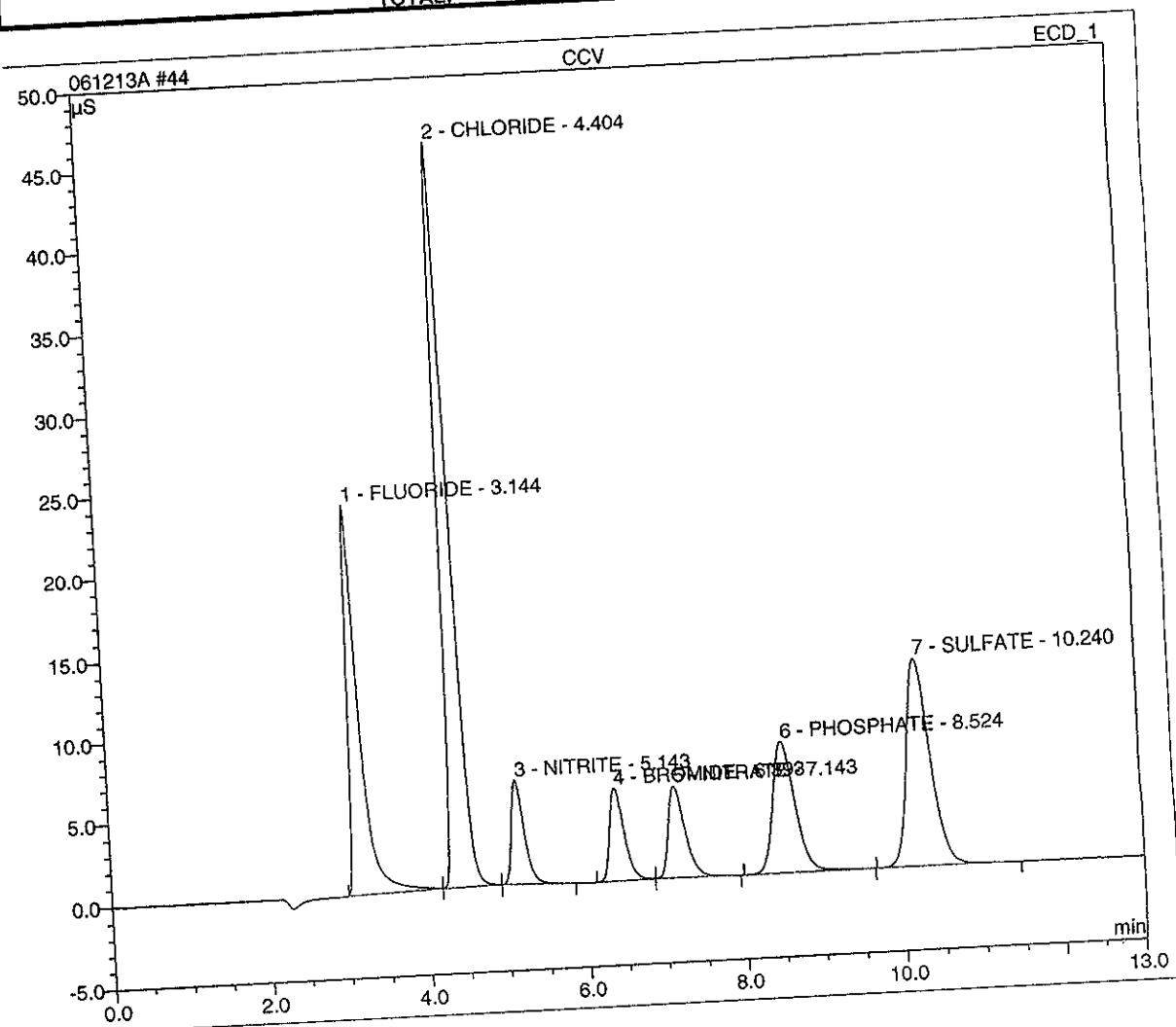
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 15:52	Run Time:	13.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



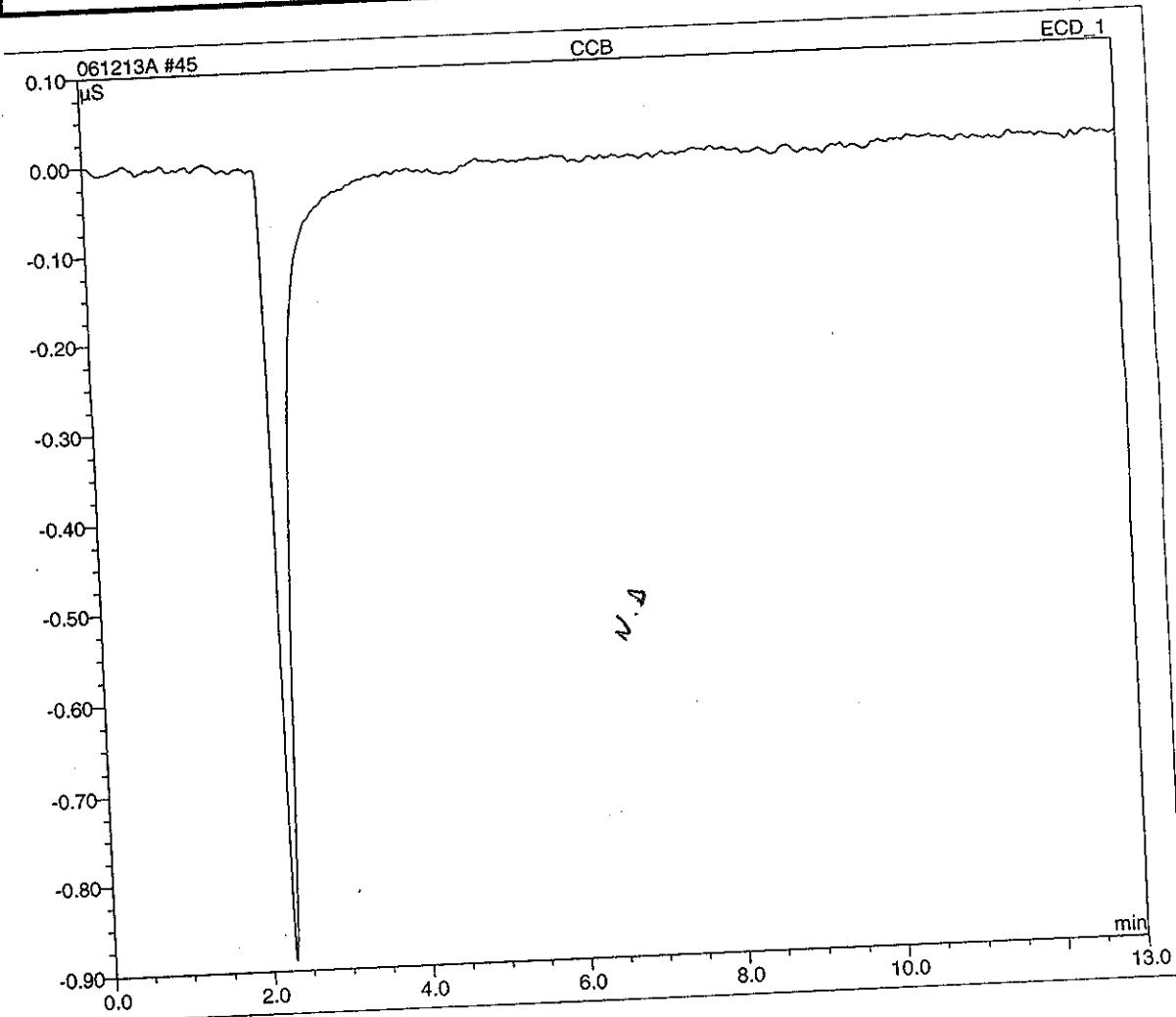
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 18:43	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	3.903	23.858	99 24.8707
2	4.40	CHLORIDE	Mb	6.790	45.810	101 50.5346
3	5.14	NITRITE	bMB	1.174	6.335	100 5.0025
4	6.39	BROMIDE	BMb	1.188	5.640	99 24.8245
5	7.14	NITRATE	bMB	1.356	5.564	100 4.9811
6	8.52	PHOSPHATE	BMB	2.590	8.074	24.8602
7	10.24	SULFATE	BMB	4.374	12.814	100 49.8443
TOTAL:				21.37	108.10	184.92



Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 18:58	Run Time:	13.00

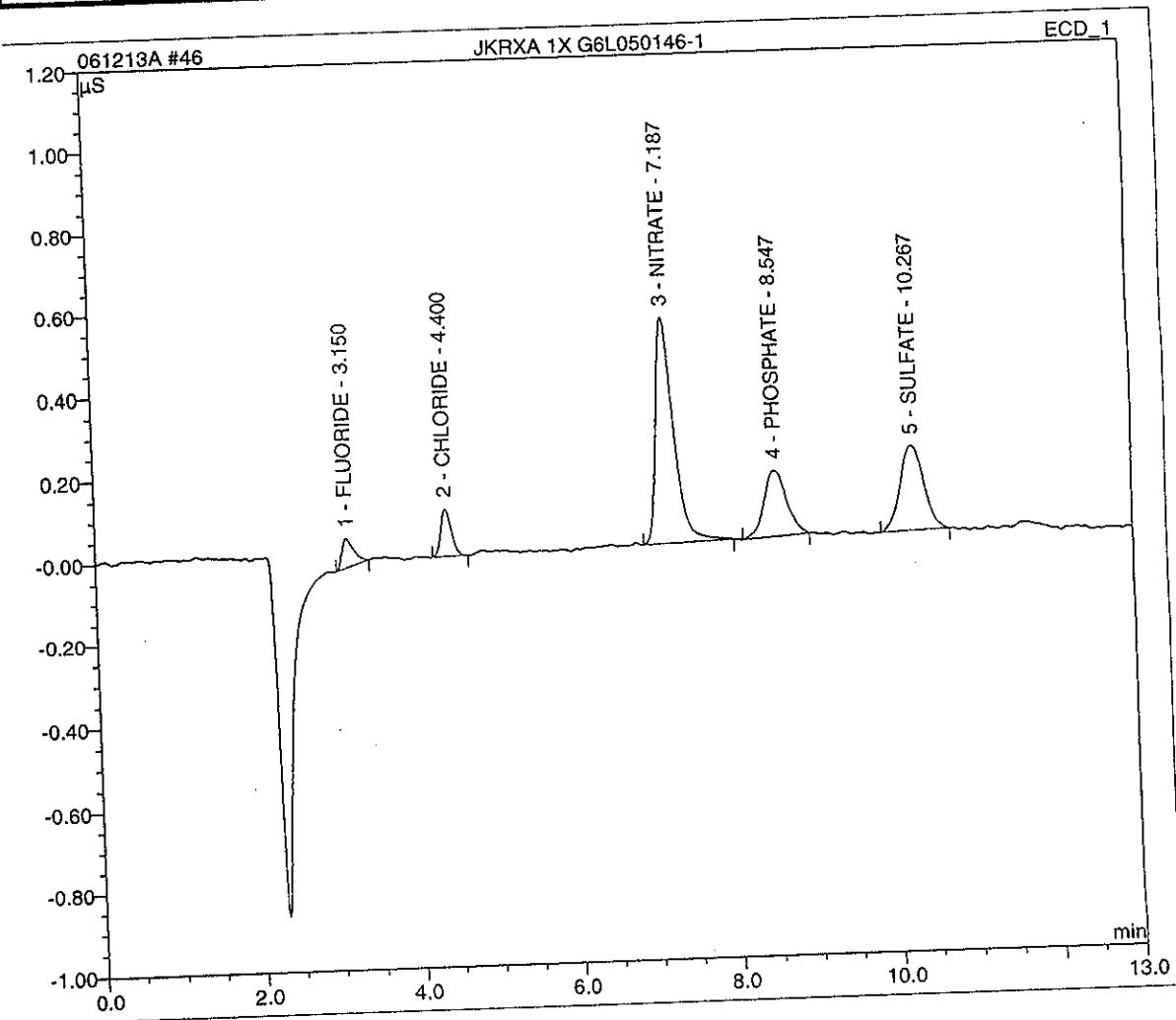
No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



Sample Name: JKRXA 1X G6L050146-1  
 Sample Type: unknown  
 Program: AS14A PROGRAM  
 Inj. Date/Time: 13.12.06 19:14

Inj. Vol.: 100.0  
 Dilution Factor: 1.0000  
 Operator: ounis  
 Run Time: 13.00

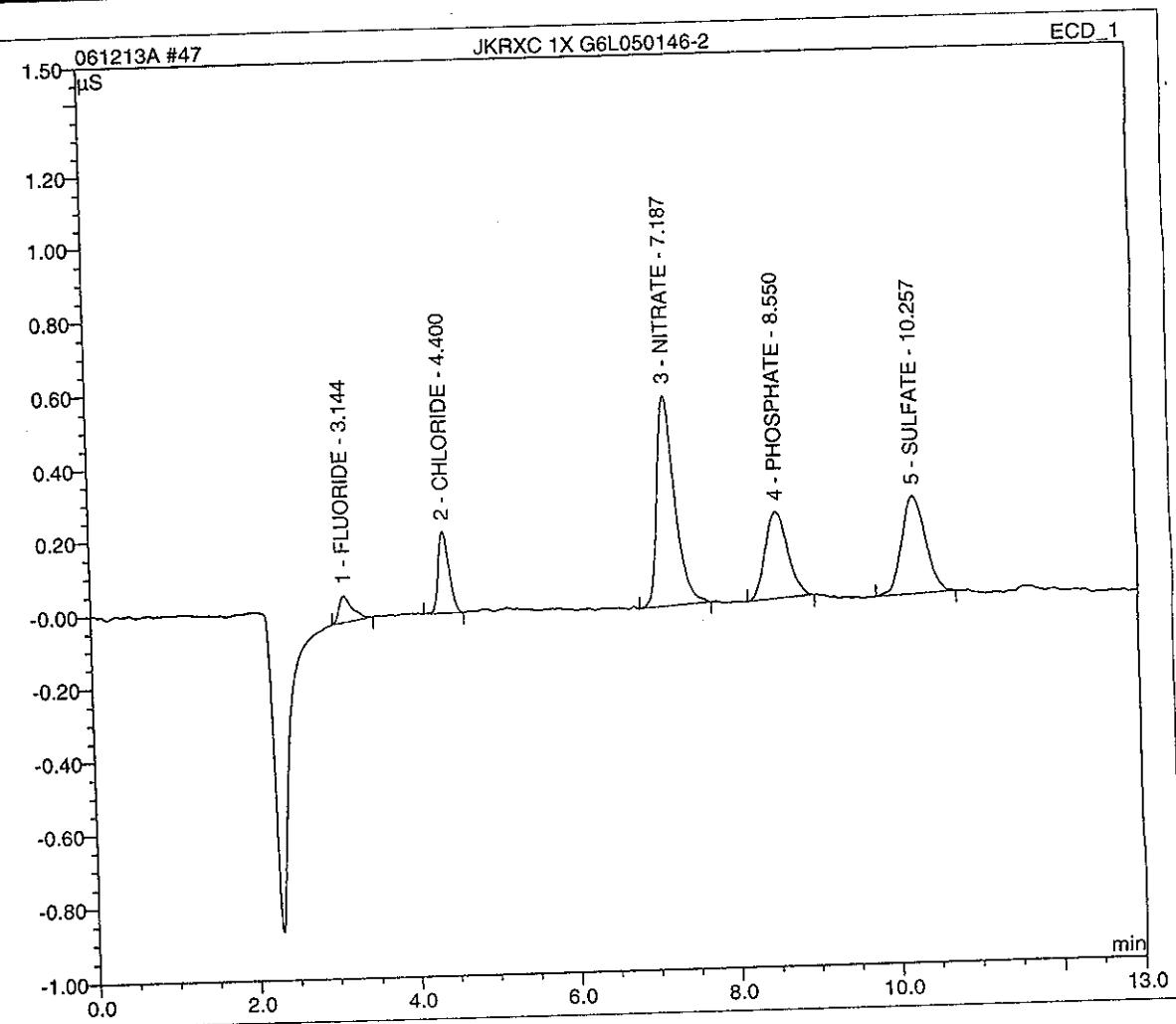
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BMB	0.012	0.070	0.1050
2	4.40	CHLORIDE	BMB	0.018	0.115	0.2304
3	7.19	NITRATE	BMB	0.142	0.546	0.5464
4	8.55	PHOSPHATE	BMB	0.052	0.158	0.5742
5	10.27	SULFATE	BMB	0.070	0.204	0.8614
TOTAL:				0.29	1.09	2.32



Sample Name: JKRXC 1X G6L050146-2  
 Sample Type: unknown  
 Program: AS14A/PROGRAM  
 Inj. Date/Time: 13.12.06 19:29

Inj. Vol.: 100.0  
 Dilution Factor: 1.0000  
 Operator: ounis  
 Run Time: 13.00

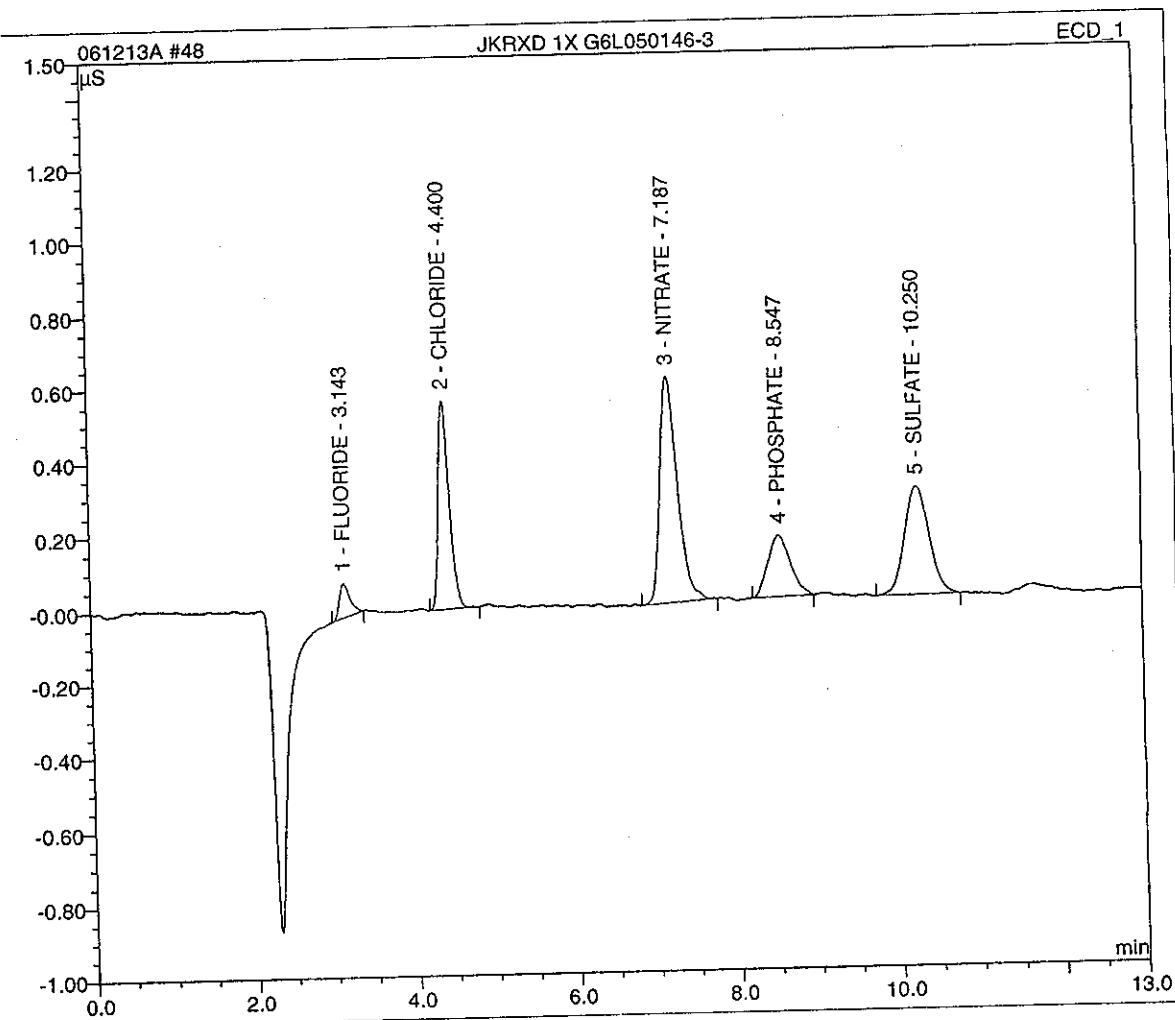
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	0.014	0.072	0.1154
2	4.40	CHLORIDE	BMB	0.034	0.221	0.3734
3	7.19	NITRATE	BMB	0.146	0.575	0.5636
4	8.55	PHOSPHATE	BMB	0.077	0.236	0.8365
5	10.26	SULFATE	BMB	0.092	0.268	1.1307
TOTAL:				0.36	1.37	3.02



Sample Name: JKRXD1X G6L050146-3  
 Sample Type: unknown  
 Program: AS14A PROGRAM  
 Inj. Date/Time: 13.12.06 19:45

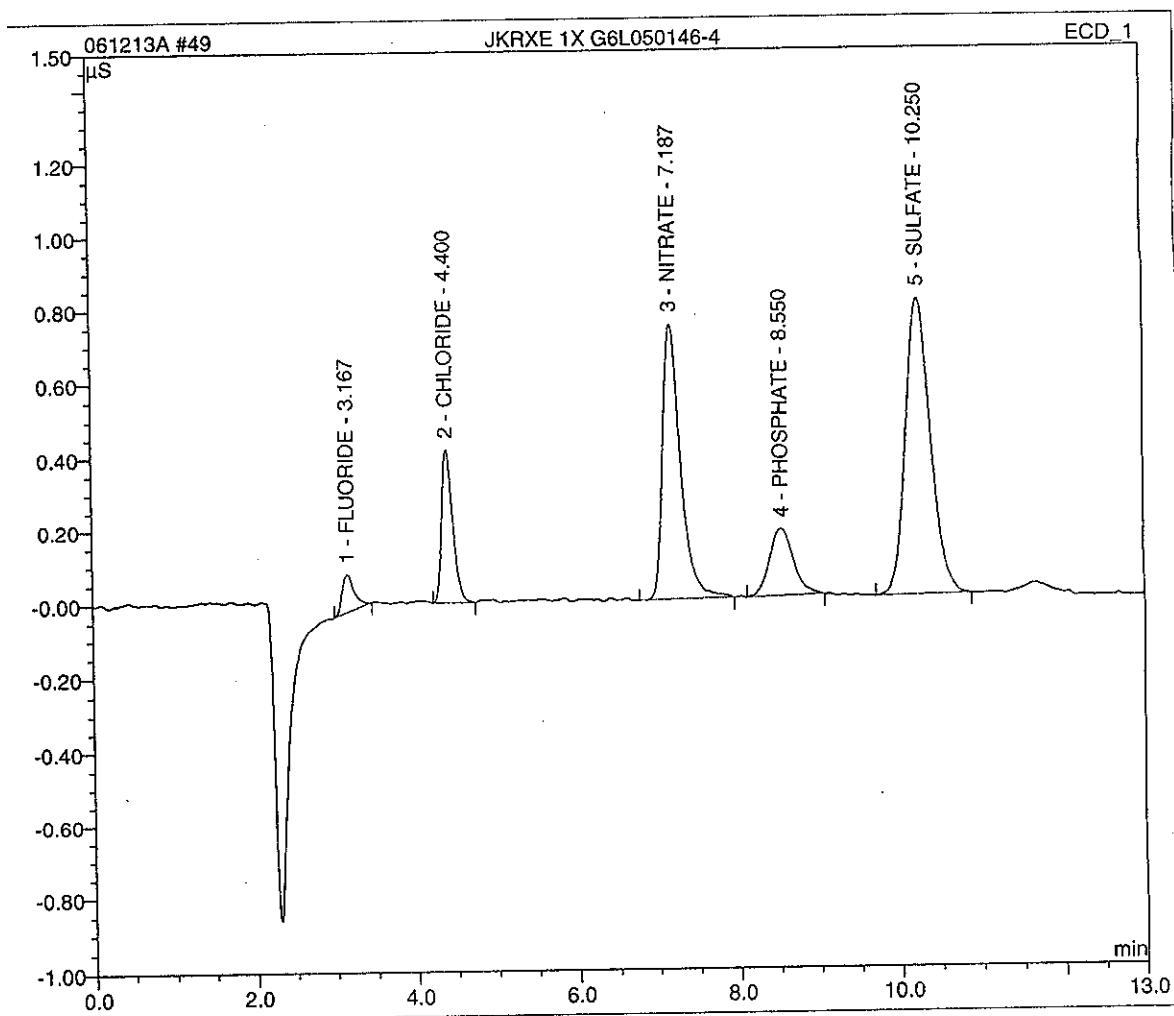
Inj. Vol.: 100.0  
 Dilution Factor: 1.0000  
 Operator: ounis  
 Run Time: 13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	0.014	0.091	0.1178
2	4.40	CHLORIDE	BMB	0.088	0.562	0.8305
3	7.19	NITRATE	BMB	0.152	0.612	0.5874
4	8.55	PHOSPHATE	BMB	0.053	0.164	0.5793
5	10.25	SULFATE	BMB	0.102	0.290	1.2530
TOTAL:				0.41	1.72	3.37



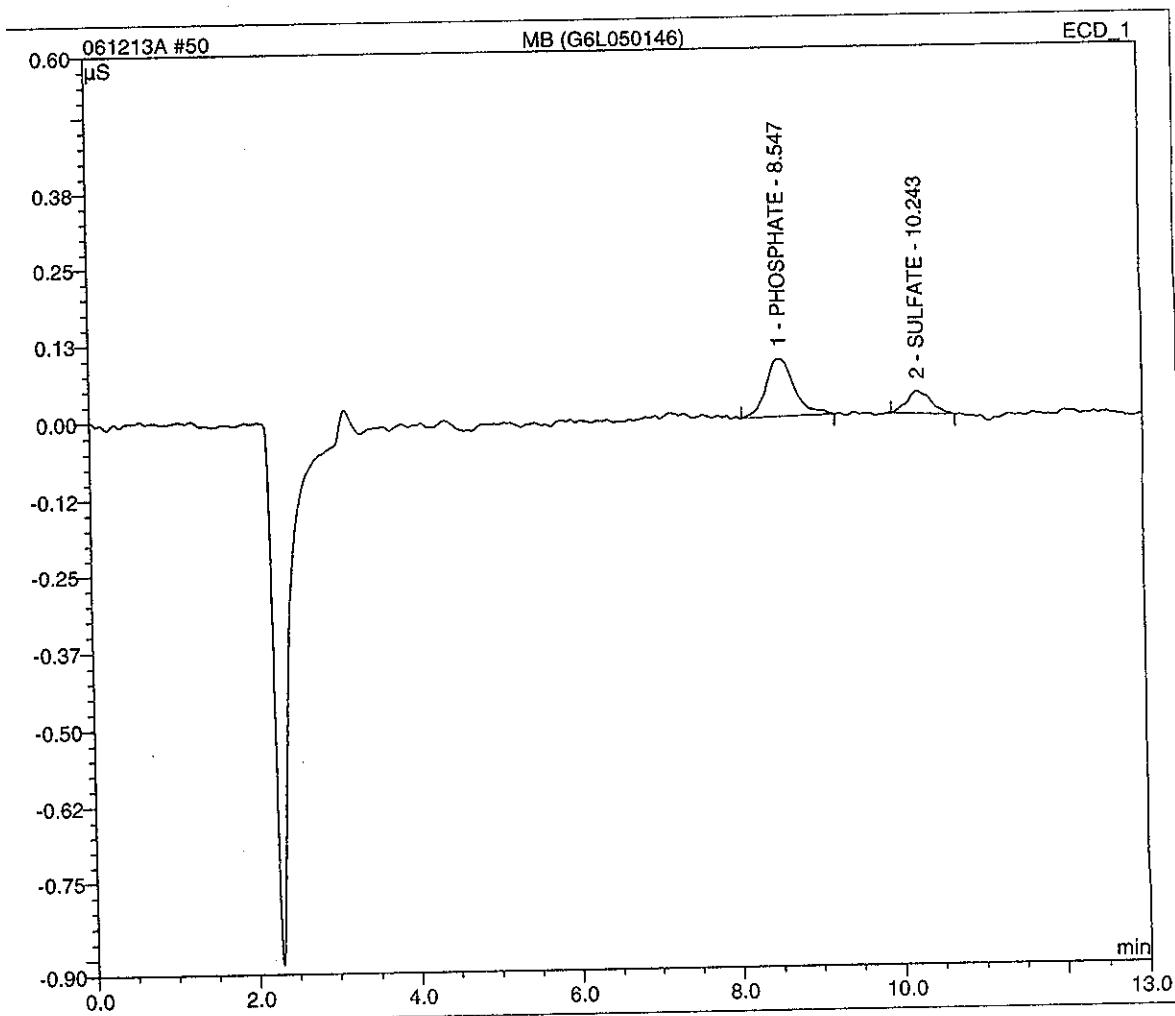
Sample Name:	JKRXE 1X G6L050146-4	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 20:00	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.17	FLUORIDE	BMB	0.018	0.100	0.1421
2	4.40	CHLORIDE	BMB	0.066	0.418	0.6449
3	7.19	NITRATE	BMB	0.192	0.749	0.7396
4	8.55	PHOSPHATE	BMB	0.063	0.182	0.6814
5	10.25	SULFATE	BMB	0.284	0.806	3.4990
TOTAL:				0.62	2.25	5.71



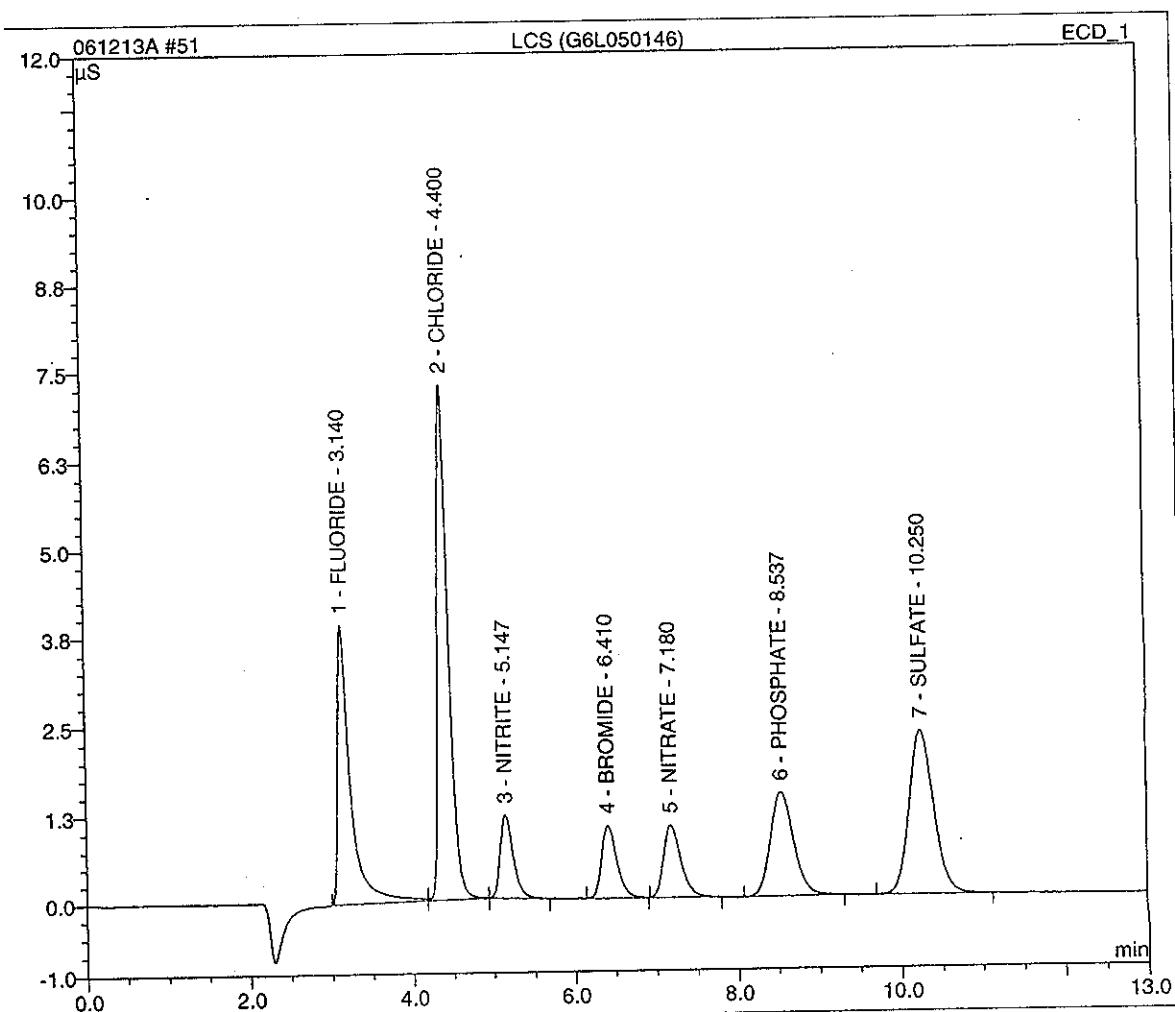
Sample Name:	MB (G6L050146)	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 20:16	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	8.55	PHOSPHATE	BMB	0.038	0.093	0.4187
2	10.24	SULFATE	BMB	0.013	0.037	0.1514
TOTAL:				0.05	0.13	0.57



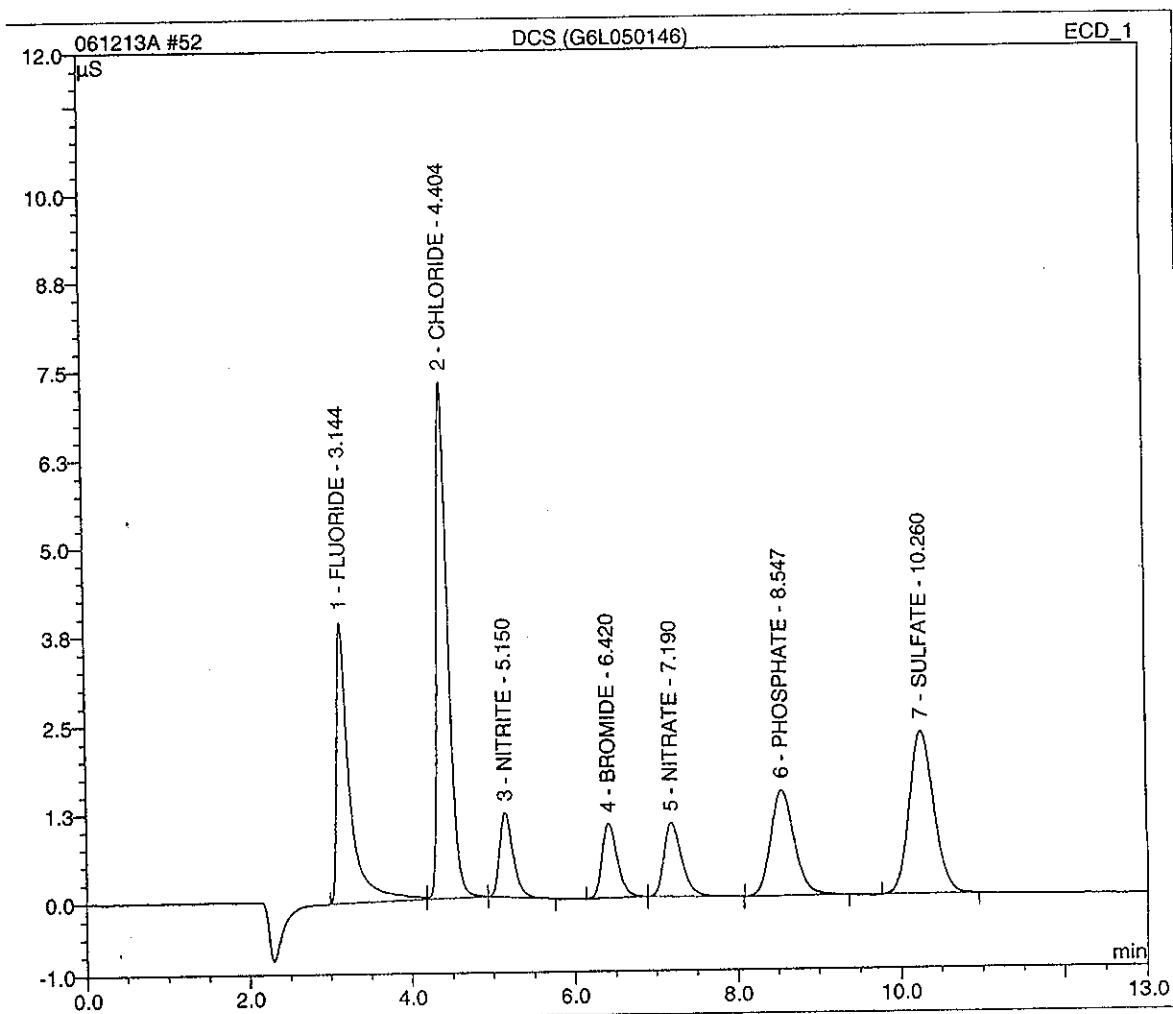
Sample Name:	LCS (G6L050146)	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 20:32	Run Time:	13.00

No.	Time min	Peak Name	Type	Area μS·min	Height μS	Amount ppm
1	3.14	FLUORIDE	BM	0.727	3.925	4.8183
2	4.40	CHLORIDE	Mb	1.130	7.266	9.5083
3	5.15	NITRITE	bMB	0.224	1.189	0.9988
4	6.41	BROMIDE	BMB	0.228	1.044	4.9691
5	7.18	NITRATE	BMB	0.260	1.041	0.9962
6	8.54	PHOSPHATE	BMB	0.494	1.481	5.1385
7	10.25	SULFATE	BMB	0.814	2.315	49 9.9164
TOTAL:				3.88	18.26	36.35



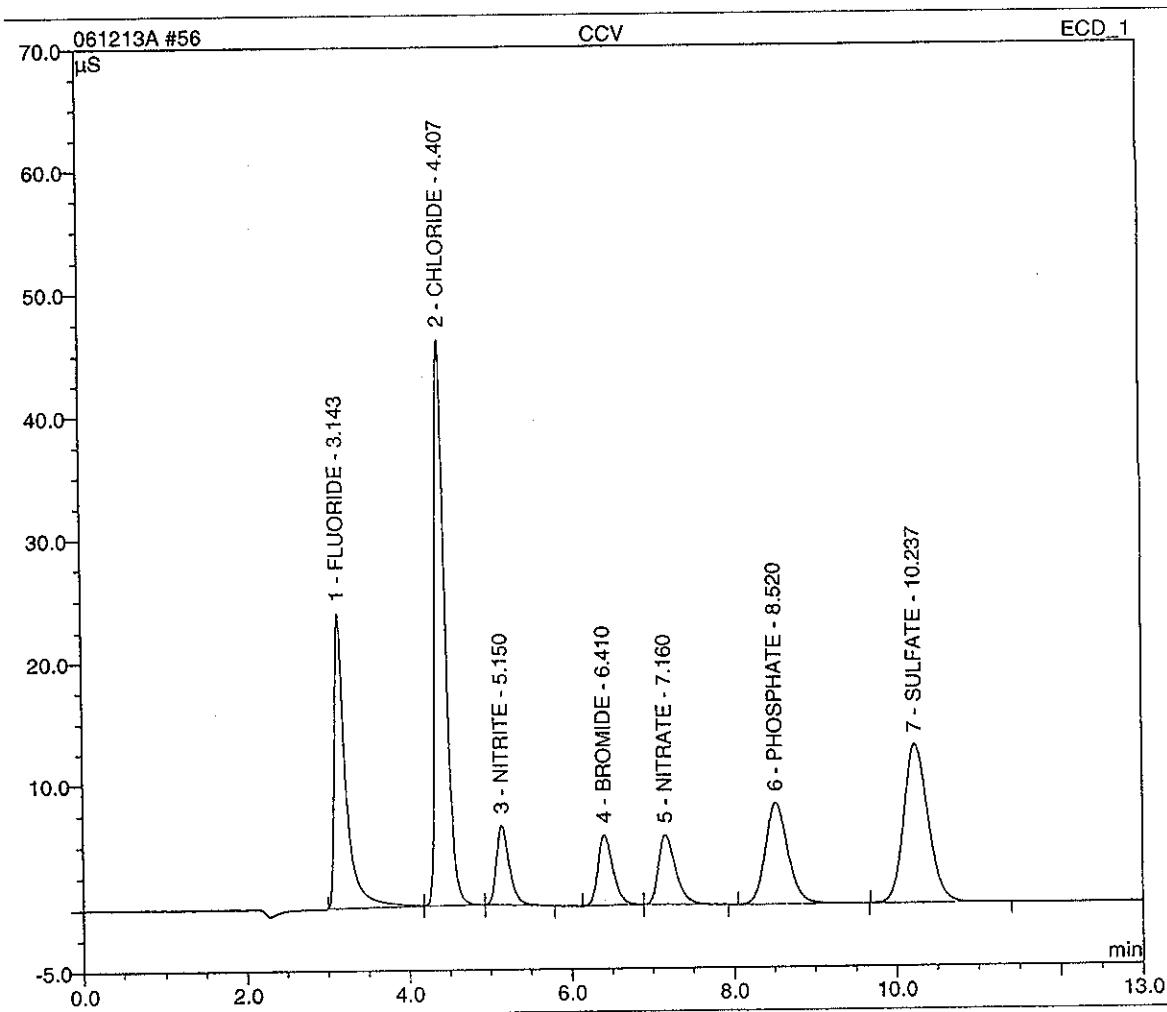
Sample Name:	DCS (G6L050146)	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 20:47	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	0.739	3.946	4.8950
2	4.40	CHLORIDE	Mb	1.134	7.285	9.5392
3	5.15	NITRITE	bMB	0.227	1.194	1.0128
4	6.42	BROMIDE	BMb	0.229	1.047	4.9825
5	7.19	NITRATE	bMB	0.263	1.040	1.0076
6	8.55	PHOSPHATE	BMB	0.500	1.498	5.2032
7	10.26	SULFATE	BMB	0.807	2.305	9.8311
TOTAL:				3.90	18.31	36.47



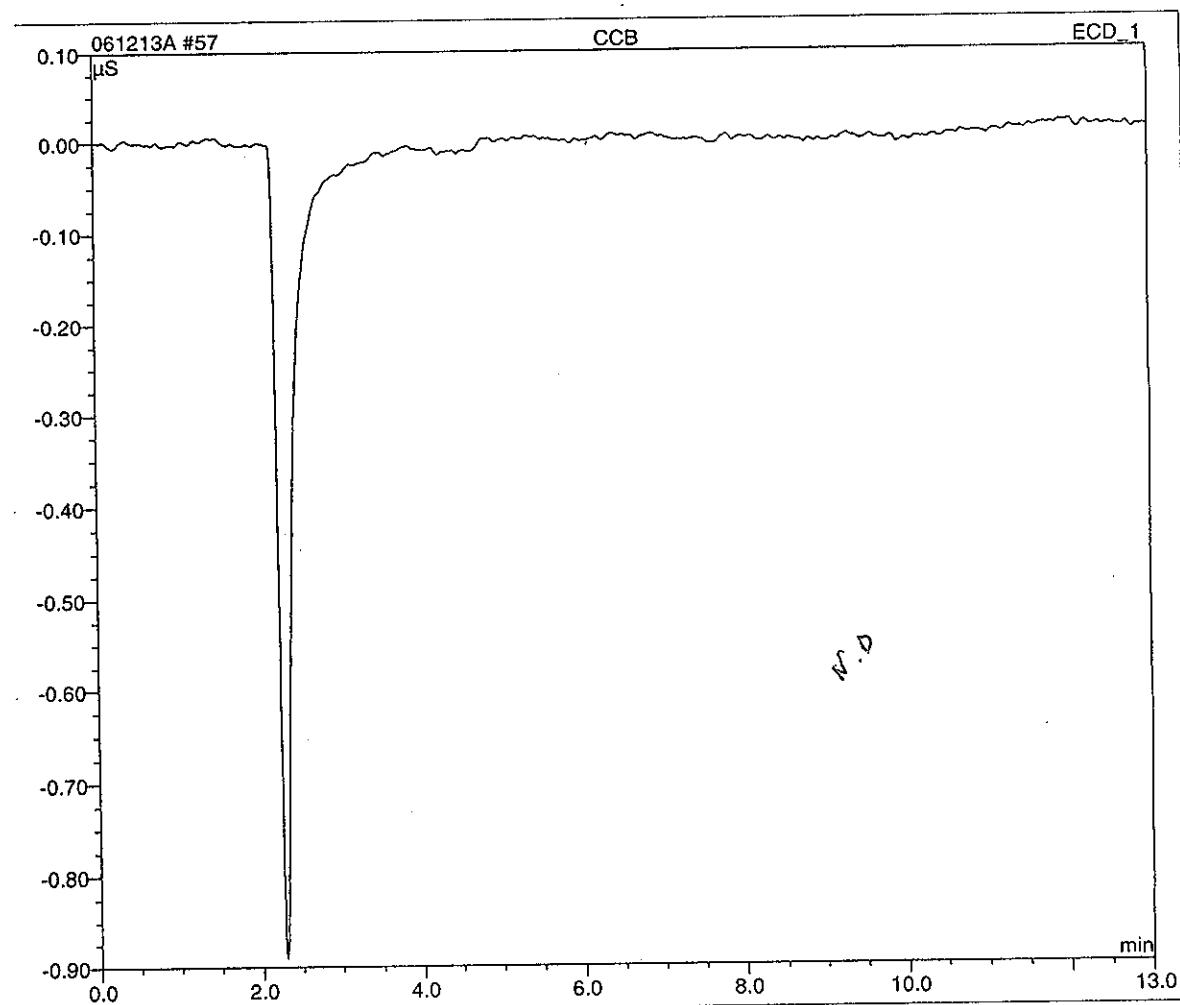
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 21:49	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	3.890	23.893	24.7933
2	4.41	CHLORIDE	Mb	6.795	45.977	50.5715
3	5.15	NITRITE	bMB	1.176	6.322	5.0083
4	6.41	BROMIDE	BMB	1.191	5.628	24.8678
5	7.16	NITRATE	bMB	1.357	5.545	4.9843
6	8.52	PHOSPHATE	BMB	2.598	8.059	24.9336
7	10.24	SULFATE	BMB	4.389	12.803	$10^3$ 50.0063
TOTAL:				21.40	108.23	185.17



Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	13.12.06 22:05	Run Time:	13.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



# AIR, PM-10 & TSP

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/12/06  
Time: 11:43:30

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>RE-RUN QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)

QC BATCH #: **6346286**

INITIALS:

DATA ENTRY:

PREP DATE: 12/07/06 10:18

PREP

INITIALS

COMP DATE: 12/11/06 10:33

ANAL

DATE

USER: VALMORES

Structured Exp. Analysis  
Work Order Lab Number Analysis Del. Date

Sample ID:

✓JKRXA-1-AA	G-6L050146-001	XX S 88 JR 01	Y-D	<u>12/6/06</u>	P-0809
✓JKRXC-1-AA	G-6L050146-002	XX S 88 JR 01	Y-D	<u>12/11/06</u>	P-0810
✓JKRXD-1-AA	G-6L050146-003	XX S 88 JR 01	Y-D	<u>↓</u>	P-0811

## Control Limits

**PARTICULATE ANALYSIS**

**LEVEL 1 & 2 REVIEW CHECKLIST**

LAB NUMBERS: G6L050 146-1→3 Batch #: 6346286

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/12/06 ANALYST: SValmores

**LEVEL 1 ANALYSIS REVIEW**

1. Samples are in good condition.
2. Sample filter number matches the folder or petri ID number.
3. Desiccator temperature and % humidity criteria in control.
4. Balance calibration criteria met.
5. Beginning and ending calibration sample bracket weights are in calibration.
6. Samples reached stable weight.
7. Samples exceeded 5 consecutive final weighings.

YES	NO	NA
✓		
✓		
✗		
✓		
✓		
✓		
✓		
		✓

**LEVEL 1 DATA REVIEW**

1. Benchsheet is complete.
2. QAS or QAPP consulted and followed for client specifics.
3. Data entered in properly.
4. Copy of spreadsheet or logbook raw data entry attached to data package.
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.

✓		
✓		
✓		
✓		
✓		

Completed By & Date: SV 12/12/06

**LEVEL 2 REVIEW:**

1. Level 1 checklist complete and verified.
2. Deviations, Anomalies, Holding times checked and approved.
3. Reanalysis documented and chemist notified.
4. Client specific criteria met.
5. Data entry checked and released in Quantims.
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).

✓		
✓		
✓		
✓		
✓		

Completed By & Date: SV 12/12/06

Comments:

des 1A

Seven Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
	5 g wt	4.9999	4.9997	4.9997	4.9995	4.9997	4.9997	0.0000
JJ57X	bcpm110206-801	110206skv1601	110306skv1225	120706skv1018	120806skv1004	121106sskv1030		0.0063
JJ570	bcpm110206-802	110206skv1602	110306skv1226	112806skv1621	112906skv1722	113006sskv1612		0.0003
JJ571	bcpm110206-803	110206skv1603	110306skv1226	112806skv1621	112906skv1723			-0.0120
JJ8VM	bcpm110206-804	110206skv1603	110306skv1226	112806skv1622	112906skv1723			0.0048
JJ8VQ	bcpm110206-805	110206skv1603	110306skv1227	112806skv1623	112906skv1724			0.0046
JJ8VR	bcpm110206-806	110206skv1604	110306skv1227	112806skv1623	112906skv1724			0.0154
JJ8VT	bcpm110206-807	110206skv1604	110306skv1229	112806skv1624	112906skv1724			0.0003
JKRXA	bcpm110206-808	110206skv1604	110306skv1229	112806skv1633	112906skv1725			NC
JKRXC	bcpm110206-809	110206skv1605	110306skv1230	120706skv1019	120806skv1005			0.0047
JKRXD	bcpm110206-810	110206skv1605	110306skv1230	120706skv1019	120806skv1005	121106sskv1032		0.0033
	5 g wt	4.9996	5.0000	4.9996	5.0001	4.9998		-0.0002
	5 g wt	4.9996	5.0000					NC
	bcpm110206-811	110206skv1606	110306skv1231	112806skv1634	112906skv1725	113006sskv1613		0.0133
	bcpm110206-812	110206skv1606	110306skv1231					NC
	bcpm110206-813	110206skv1607	110306skv1234					NC
	bcpm110206-814	110206skv1607	110306skv1234					NC

Seven Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
bcpm110206-815	4.1358	4.1362						NC
bcpm110206-816	4.1333	4.1333						NC
bcpm110206-817	4.1431	4.1428						NC
bcpm110206-818	4.1444	4.1441						NC
bcpm110206-819	4.1412	4.1410						NC
bcpm110206-820	4.1526	4.1527						NC
5 g	4.9995	4.9997	5.0000	4.9995	4.9999			0.0002
wt	110206skv1610	110306skv1236	120706skv1020	120806skv1008	121106sskv1033			

PDE115

Severn Trent Laboratories, Inc.  
 Inorganics Batch Review  
 QC Batch 6346286

Date 12/21/2006  
 Time 17:30:27

## Method Code: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)

Analyst: Steve Valmores

Work Order	Result	Units	LDL/DIL	PREP. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LNL	Dil.
JKRXA-1-AA	0.0047	g	0.0001	T2/07-12/08/06	.00	N	R	0.0047	0.0001	1.00
JKRXC-1-AA	0.0033	g	0.0001	12/07-12/11/06	.00	N	R	0.0033	0.0001	1.00
JKRXD-1-AA	0.0133	g	0.0001	12/07-12/11/06	.00	N	R	0.0133	0.0001	1.00

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION TOTALS	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/12/06  
Time: 11:44:13

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>RE-RUN QC</u>	<u>RE-RUN MATRIX</u>	<u>MISC OTHER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
 QC BATCH #: **6346285** INITIALS: **SN** DATA ENTRY: **EV**  
 PREP DATE: 12/07/06 10:22 PREP **SN** INITIALS  
 COMP DATE: 12/11/06 10:17 ANAL **SN** DATE **12/12/06**  
 USER: VALMORES

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JKRXE-1-AA	G-6L050146-004	XX S 88 AO 3W	Y-D	<u>12/11/06</u>	000579

Control Limits

**PARTICULATE ANALYSIS**

**LEVEL 1 & 2 REVIEW CHECKLIST**

LAB NUMBERS: G6L050146 - 4 Batch #: 6346285

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/12/06

ANALYST: S. Mores

**LEVEL 1 ANALYSIS REVIEW**

1. Samples are in good condition.
2. Sample filter number matches the folder or petri ID number.
3. Desiccator temperature and % humidity criteria in control.
4. Balance calibration criteria met.
5. Beginning and ending calibration sample bracket weights are in calibration.
6. Samples reached stable weight.
7. Samples exceeded 5 consecutive final weighings.

YES	NO	NA
✓		
✓		
✓		
✓		
✓		
✓		
		✓

**LEVEL 1 DATA REVIEW**

1. Benchsheet is complete.
2. QAS or QAPP consulted and followed for client specifics.
3. Data entered in properly.
4. Copy of spreadsheet or logbook raw data entry attached to data package.
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.

✓		
✓		
✓		
✓		
		✓

Completed By & Date: SJ 12/12/06

**LEVEL 2 REVIEW:**

1. Level 1 checklist complete and verified.
2. Deviations, Anomalies, Holding times checked and approved.
3. Reanalysis documented and chemist notified.
4. Client specific criteria met.
5. Data entry checked and released in Quantims.
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).

✓		
✓		
✓		
✓		
✓		
✓		

Completed By & Date: SJ 12/21/06

Comments: des 1A

Severn Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID		Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
JJ573	5 g wt	bctsp110206- 576	110206skv1546	5.0001 110306skv1213	4.9996 120706skv1022	5.0001 120806skv1002	4.9998 121106skv1017		-0.0002
JJ8VV	577 578	bctsp110206- bctsp110206-	110206skv1547 110206skv1547	4.3116 4.2968 110306skv1214	4.3119 4.2971 110306skv1214	4.3360 4.3341 112806skv1615	4.3340 4.3309 112906skv1728	4.3340 4.3307 113006skv1607	0.0221 0.0336
JKRXE	579 580	bctsp110206- bctsp110206-	110206skv1548 110206skv1548	4.3084 4.3133 110306skv1215	4.3085 4.3138 110306skv1215	4.3466 4.3452 120706skv1022	4.3453 4.3452 120806skv1003	4.3453 4.3452 121106skv1017	0.0368
	581 582	bctsp110206- bctsp110206-	110206skv1549 110206skv1549	4.2951 4.2959 110306skv1216	4.2955 4.2964 110306skv1216				NC
	583 584	bctsp110206- bctsp110206-	110206skv1549 110206skv1550	4.2910 4.2971 110306skv1217	4.2915 4.2971 110306skv1217				NC
	585	bctsp110206-	110206skv1550	4.2785 4.2971 110306skv1218	4.2790 4.2971 110306skv1218				NC
	5 g wt		4.9997 110206skv1550	5.0000 110306skv1218	4.9998 112806skv1617	5.0002 112906skv1729	5.0001 113006skv1608	0.0001	
	5 g wt		4.9997 110206skv1550	5.0000 110306skv1218	4.9995 120706skv1023	5.0001 120806skv1003	5.0001 121106skv1017	-0.0005	

PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 6346285

Date 12/21/2006  
Time 17:33:11

Method Code:AO Particulates in Air, Suspended "TSP Hivol" (APP B)

Analyst:Steve Valmores

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total	PSRL	Rounded Output
JKRXE-T-AA	0.0368	g	0.0001	12/07-12/11/06	.00	N	Dil.
					.00		1.00

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION TOTALS	MATRIX #	OTHER #	MISC #	HOURS
	0	0	QC #	0	0	0	.0